



# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY

*(Formerly University College of Engineering, Burla, Sambalpur, Odisha)*

**Tel:** (+91) 663 2430211, **Fax:** (+91) 663 2430204, **Email:** [info@vssut.ac.in](mailto:info@vssut.ac.in)

**Website:** [www.vssut.ac.in](http://www.vssut.ac.in)

## SELF – STUDY REPORT



Submitted to

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

Bengaluru – 560072



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बीर सुरेन्द्र साए प्रौद्योगिकी विश्वविद्यालय  
बुर्ला - 768018, सम्बलपुर, उडिशा, भारत  
**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY**  
BURLA - 768018, SAMBALPUR, ODISHA, INDIA

**Prof. E. Saibaba Reddy**

B.Tech., M.E. (Hons. Roorkee) Ph.D. (Nottingham, UK)

Post Doc. (Halifax, Canada), Post. Doc. (Birmingham, UK)

CE, FIE, FIGS, MIWRS, MISRM T, MASET, FAH, MISTE, MINCA, MABS, MIRC

**VICE CHANCELLOR**

No.VSSUT/F&P-109/

989

/2015

Dated, 06.04.2015

To

The Director,  
National Assessment & Accreditation Council (NAAC)  
P.O. Box No. 1075, Nagarbhavi,  
**BANGALORE – 560072.**

***Sub :- Uploading of Self Study Report (SSR) in our website [www.vssut.ac.in](http://www.vssut.ac.in)***

Ref :- (1) Your letter No.NAAC/E&NER-JP/OR-UN/1<sup>st</sup> Cycle/2015 dated 28.01.2015  
(2) Our letter No.VSSUT/F&P-109/915 dated 05.02.2015

Sir,

With reference to the above, we have prepared the Self Study Report (SSR) and it has already been uploaded in our website [www.vssut.ac.in](http://www.vssut.ac.in).

The hard copy of the SSR with the required documents will be sent to your office in due course of time.

Thanking you and with regards,

Yours sincerely,

**VICE-CHANCELLOR**

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## **EXECUTIVE SUMMARY**

The Veer Surendra Sai University of Technology (VSSUT), Odisha was formed by Odisha Act 9 of 2009 by converting University College of Engineering (UCE), Burla to a non-affiliating Unitary University and came into force by issue of notification by Government of Odisha from 1<sup>st</sup> day of July 2009 (vide Industries Deptt. Memo No. IV-TTI-33/2009-8553 and 8564 dtd 10.6.2009). This State Government University is recognized under Section 22 and 12B by University Grants Commission (UGC), New Delhi.

Situated at the foothill of world famous Hirakud dam, the early history of the University is a fascinating chapter in the story of technical education in Odisha. Established on 12<sup>th</sup> August 1956 at Burla in the name of University College of Engineering (UCE), the first engineering College was functioning as a constituent College of Utkal University, Bhubaneswar. The primary objective of establishing the Engineering College (presently the University) is to produce engineers who can manage Hirakud Dam.

The University occupies 166.48 acres of prime land in Burla and in the process of acquiring 200 more acres. Indeed the contribution from the Irrigation Department of Odisha was the decisive element in determining the location of this University.

Burla is located at 21<sup>0</sup>30'N83<sup>0</sup>52'E21.5<sup>0</sup>N83<sup>0</sup>E. It has an average elevation of 173 metres (567 feet above mean sea level). The town lies at one end of Hirakud Dam which is located around 2 km North-West of the town. The Burla is piquant and truly University town as it hosts the Sambalpur University, the VSS Medical College & Hospital and the Veer Surendra Sai University of Technology, Burla, besides numerous schools and college. It is the most ideal place for learning and to achieve one privileged dreams. Burla is well connected to Bhubaneswar, Jharsuguda, Raipur and Kolkata with roads and railways. Burla is only 10 km away from Sambalpur by road and railways. In 1956, UCE started with 20 students enrolling into 3 branches, namely the Civil Engineering, the Electrical Engineering and the Mechanical Engineering. Subsequently, it was under the administrative control of Sambalpur University in January 1967 and later on with Biju Patnaik University of Technology (BPUT) in July, 2002, till it became technical university in 2009.

### **The following academic programmes are available at VSSUT**

- Bachelor of Technology (B.Tech )
- Master of Technology (M.Tech )
- Master of Science (M.Sc.)
- Master of Philosophy (M.Phil)
- Master in Computer Application (MCA)
- Doctor of Philosophy (Ph.D.)

Admissions to various Masters programmes, M.Phil and Ph.D. programmes are made through written tests and interviews conducted by University. The students to B.Tech. are admitted based on the all india rank secured in JEE Main conducted by CBSE. The Lateral Entry to Diploma holders as well as MCA programmes get admitted through Odisha Joint Entrance Examination(OJEE). All the programmes are approved by AICTE. The University has a AICTE QIP centre for Ph.D. Programme in engineering disciplines.

A brief snapshot of the VSSUT is presented here.

- 1<sup>st</sup> Unitary Technical University of the State.
- 1<sup>st</sup> Engineering College of the State established in 1956 under the name UCE, Burla
- 59 years of experience in engineering education, consultancy and research
- Produced more than 25000 graduate engineers, 5000 post-graduate engineers, and good number of Ph.Ds
- The University offers following courses :
  - ❖ B. Tech. Programmes in 11 engineering disciplines
  - ❖ M. Tech Programmes in 20 specializations
  - ❖ M.Sc. programmes in 3 specializations
  - ❖ 5 yr Integrated M.Sc. programme in 2 specializations
  - ❖ M.Phil programme in 3 specializations
  - ❖ M.C.A. programme
  - ❖ Ph.D. programmes
- 1<sup>st</sup> College to offer PG programme in engineering in the State.
- UCE is only college in Odisha to have been recommended by the state government to MHRD for up gradation to IIT status in 2004.
- It has the good library with journals and books.
- It has very big auditorium with 1200 capacity.
- It has the largest campus area, about 166.48 acres of prime land in Burla and in the process of acquiring 200 more acres.
- The University has a strong alumni base, most of them occupying coveted positions in many educational, industrial and research organizations all over the world.
- Surrounded by institutes such as Sambalpur University and VSS Medical university and big industries such as MCL, HINDALCO, Bhusan Steel, OHPC, L&T, NALCO, NTPC, OPGC, TRL, Vedanta, Aditya & Rathi Steel etc.
- Ranked as 13<sup>th</sup> in India as College of Excellence and 7<sup>th</sup> top technical institute in the East & Central Zone by Competition Success Review in June, 2012.
- The university has submitted proposal to MHRD for upgrading the university to IEST.



## SWOC

### STRENGTHS

- Eco-friendly and amicable working atmosphere
- Highly qualified and experienced faculty members with more number of doctorates
- Premier college (established in 1956 and later converted into an university) with strong alumni support
- Unitary university established in 2009 by Govt. of odisha
- Well equipped laboratories in all department
- Well stacked library with good number of books and journals
- High bandwidth 1Gbps leased line internet connectivity
- Top rank students take admission
- Collaboration with many industries
- Various faculty development programme conducted
- Good industry-institute interaction
- Student participation in various activities to enhance their interpersonal and leadership qualities
- Conducive environment for teaching-learning
- Residential facilities available for students and staff
- Social welfare programme organized by the students
- Student participation in various co-curricular and extra-curricular activities
- Dedicated training and placement team
- Good percentage of placement record
- Student success in competitive and GATE examinations
- Good number of sponsored research projects
- R&D and consultancy work
- TEQIP –II programme implemented
- Identified to allocate funds from RUSA
- Our alumni occupied key positions in state & central Govt. and renowned corporate house in India and abroad.
- Establishment of Quality Improvement programme (QIP) centre funded by MHRD

### WEAKNESS

- Less number of patents
- Faculty exchange programme
- Student exchange programme
- Far away from the Bhubaneswar city where airport is available
- Industry supported laboratories
- Industry sponsored chair professors

## **OPPORTUNITIES**

- Potential to contribute to economic development of region
- Introduction of more innovative programmes
- To have more sponsored research projects
- Introduction of value added and skill development programmes
- Credit accumulation and transfer facilities
- Curriculum and syllabus can be updated regularly to meet the ever changing industry requirements
- More scope for interdependent and interdisciplinary projects
- Collaboration with foreign universities for student and faculty exchange programme and collaborative research.

## **CHALLENGES**

- Collaboration with foreign universities to promote study abroad and student exchange programme for the final year students
- Collaboration with foreign universities for faculty exchange programme
- Balancing administrative, academic, Research and consultancy work
- Inculcate ethical values in the mind of students
- To upgrade the laboratories to meet state of the art equipment at national and international level.
- To make the university as technology centre of research for the state of odisha and india.

## SECTION B

# PROFILE OF THE UNIVERSITY

### 1. Name and Address of the University:

|                                 |   |                      |  |
|---------------------------------|---|----------------------|--|
| <b>Name:</b>                    | VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY        |                      |  |
| <b>Address:</b>                 | PO. ENGINEERING COLLEGE, BURLA<br>DIST: SAMBALPUR |                      |  |
| <b>City:</b> SAMBALPUR          | <b>Pin:</b> 768 018                               | <b>State:</b> ODISHA |  |
| <b>Website:</b> www.vssut.ac.in |   |                      |  |

### 2. For Communication:

| Designation                                   | Name                       | Telephone with STD Code            | Mobile      | Fax           | Email  |
|---|----------------------------|------------------------------------|-------------|---------------|--|
| <b>Vice Chancellor</b>                        | Prof. E.Saibaba Reddy      | O: 0663- 2430211                   | 94375 72477 | 0663- 2430204 | vc@vssut.ac.in<br>vcvssut@gmail.com                        |
| <b>Registrar</b>                              | Prof. Pradip Kumar Pradhan | O: 0663-2430573<br>R: 0663-2430761 | 99373 05002 | 0663- 2430592 | registrar@vssut.ac.in                                      |
| <b>Steering Committee / IQAC Co-ordinator</b> | Prof. Jaydev Rana          |                                    | 94388 65899 |               | <a href="mailto:deanfp@vssut.ac.in">deanfp@vssut.ac.in</a> |

### 3. Status of the University:

- State University
- State Private University Central University
- University under Section 3 of UGC (Deemed University)
- Institution of National Importance

### 4. Type of University:

Unitary [  ]  
 Affiliating [  ]

### 5. Source of funding:

Central Government [  ]  
 State Government [  ]  
 Self-financing [  ]  
 Any other (please specify) \_\_\_\_\_

### 6.

**a. Date of establishment of the university:** 01/07/2009

**b. Prior to the establishment of the university, was it a/an**

- |                               |   |  |
|-------------------------------|---|--|
| i. PG Centre                  | Yes [ <input checked="" type="checkbox"/> ] | No [ <input type="checkbox"/> ]            |
| ii. Affiliated College        | Yes [ <input type="checkbox"/> ]            | No [ <input checked="" type="checkbox"/> ] |
| iii. Constituent College      | Yes [ <input checked="" type="checkbox"/> ] | No [ <input type="checkbox"/> ]            |
| iv. Autonomous College        | Yes [ <input checked="" type="checkbox"/> ] | No [ <input type="checkbox"/> ]            |
| v. Any other (please specify) | _____                                       |  |

If yes, give the date of establishment : **12/08/1956**

**7. Date of recognition as a university by UGC or any other national agency:**

| Under Section               | DD | MM | YYYY | Remarks               |
|-----------------------------|----|----|------|-----------------------|
| i. 2f of UGC*               | 05 | 01 | 2010 | Section 22 of UGC Act |
| ii. 12B of UGC **           | 08 | 11 | 2012 |                       |
| iii. 3 of UGC               |    |    |      |                       |
| iv. AICTE Approval Letter # | 08 | 06 | 2014 |                       |

\* Enclosed certificate of recognition. *Annexure -I*

\*\* Enclosed notification of MHRD and UGC for all courses / programmes / campus/ campuses. *Annexure-II*

# Enclosed approval letter of AICTE, New Delhi. *Annexure-III*

**8. Has the university been recognized**

**a. By UGC as a University with Potential for Excellence?**

Yes [ ] No [  ]

If yes, date of recognition : ..... (dd/mm/yyyy)

**b. For its performance by any other governmental agency?**

Yes [ ] No [  ]

If yes, Name of the agency ..... and

date of recognition: ..... (dd/mm/yyyy)

**9. Does the university have off-campus centres?**

Yes [ ] No [  ]

If yes, date of establishment : ..... (dd/mm/yyyy)

date of recognition : ..... (dd/mm/yyyy)

**10. Does the university have off-shore campuses?**

Yes [ ] No [  ]

If yes, date of establishment : ..... (dd/mm/yyyy)

date of recognition: ..... (dd/mm/yyyy)

**11. Location of the campus and area:**

|                                   | Location *     | Campus area in acers | Built up area in sq. mts |
|-----------------------------------|----------------|----------------------|--------------------------|
| i. Main campus area               | Urban          | 166.48 Acres         | 26707                    |
| ii. Other Campuses in the Country | Not applicable | Not applicable       | Not applicable           |
| iii. Campuses abroad              | Not applicable | Not applicable       | Not applicable           |

(\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

**12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.**

The University is unitary one established by the Govt. Of Odisha in 2009 by converting University College of Engineering, Burla which was established in 1956. It has its own campus at Burla. It does not have any other campus. The infrastructure facilities available in this campus is given below.

**Auditorium/seminar complex with infrastructural facilities**

A well equipped auditorium with 1200 seating capacity is available. A seminar hall is available with a seating capacity of 100. In addition, each department has its own seminar hall. An e-learning centre is under construction which is expected to complete by August, 2015. The main aim of this centre is to impart education to students through e-resources in a well structured manner.

• **Sports facilities**

- ❖ **Playground:-** The University has five acres of land exclusively used for the purpose of outdoor and indoor sports and games. It has facilities for all types of outdoor games like football, cricket, volley ball, basket ball, kho kho, athletic track and indoor games like badminton, table tennis, carom, chess etc.
- ❖ **Swimming Pool:-** A swimming is proposed to be constructed near the Athletic Club.
- ❖ **Gymnasium:-** A well equipped gymnasium is available in the university. A number of single and multi stationed machines and other weight training accessories are available to provide opportunity for the students and staff to train themselves to keep their body fit.

• **Hostel**

❖ **Boys' Hostel**

- Number of hostels:- 05 Nos.
- Number of inmates:- 1647 Nos.
- Facilities:- The following facilities are available in the Boys' hostel
  - a) Mess and Canteen facilities
  - b) Stationery shop with Photocopy facilities
  - c) Playground, Garden
  - d) Round the clock security with security shed
  - e) Guest room facilities
  - f) Common room with Television and dish connection
  - g) Internet facilities
  - h) Laundry facilities
  - i) Aqua guard
  - j) Cycle shed

### ❖ **Girls' Hostel**

- Number of hostels:- 04 Nos.
- Number of inmates:- 1019 Nos.
- Facilities:- The following facilities are available in the Girls' hostel
  - a) Mess facilities
  - b) Stationery shop with Photocopy facilities
  - c) Badminton ground and Garden
  - d) Round the clock security with security shed
  - e) Guest room facilities
  - f) Common room with Television and dish connection
  - g) Internet facilities
  - h) Laundry facilities
  - i) Aqua guard
  - j) Cycle shed

#### • **Residential facilities for faculty and non-teaching**

The University has 268 nos. of quarters for the teaching and non-teaching staff.

#### • **Cafeteria**

The university has a cafeteria in the basement of the Sir Vaisawariya Auditorium. It provides hygienic meals and tiffin to students and staff.

#### • **Health centre**

The university has a full fledged dispensary located in the halls of residence campus to provide immediate medical facilities to the students. One full time Govt. deputed doctor, one pharmacist and one attendant are available to attend the day today medical problem of the students. The dispensary opens 7AM to 10AM in the morning and 5PM to 8.30PM. However, in case of casualty/emergency, this students can avail the facilities of VSS Medical College Hospital which is 2 KM away from this campus. The university has one ambulance which is used for any emergency work.

#### • **Other Facilities**

❖ **Banking:** The university has one Syndicate Bank situated near the basement of auditorium. Two number of ATM (One is SBI ATM and the other is Syndicate Bank ATM) is also functioning inside the university campus.

❖ **Post Office:** One post office is functioning inside the university campus.

#### • **Transport facilities**

The university provides central transport facilities to both students and staff. The vehicles under these facilities are

- ❖ One bus (50 seated)
- ❖ One Innova

- ❖ One Verna
- ❖ One ambulance

The bus is used for attending industrial tours and athletics meet. Innova is used for official work including the work of training and placement. Verna is used for the official purpose.

• **Facilities for persons with disabilities**

The university has concern for differently disabled students. Class rooms and laboratory for them are arranged in the ground floor and ramps are provided.

- ❖ Animal house : Not applicable
- ❖ Incinerator for laboratories : Not applicable
- ❖ Power house : Available (125KVA) Generator
- ❖ Waste management facility : Available

**13. Number of institutions affiliated to the university**

As this is an unitary university there is no affiliated institutions.

**14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.**

Not Applicable

**15. Furnish the following information:**

| Particulars  | Number | Number of Students |
|--|--------|--------------------|
| a. University Departments                            |        |                    |
| Undergraduate  | 14     | 2745               |
| Post graduate  | 10     | 606                |
| Research centres on the campus                       | 10     | 177                |
| b. Constituent colleges                              | NA     |                    |
| c. Affiliated colleges                               | NA     |                    |
| d. Colleges under 2(f)                               | NA     |                    |
| e. Colleges under 2(f) and 12B                       | NA     |                    |
| f. NAAC accredited colleges                          | NA     |                    |
| g. Collages with potential For Excellence (UGC)      | NA     |                    |
| h. Autonomous colleges                               | NA     |                    |
| i. Colleges with Postgraduate Departments            | NA     |                    |
| j. Colleges with Research Departments                | NA     |                    |
| k. University recognized Research Institutes/Centres | NA     |                    |

**16. Does the university conform to the specification of Degrees as enlisted by the UGC?**

Yes [  ]      No [  ]

**17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)**

| Programmes         | Number    |
|--------------------|-----------|
| UG                 | 11        |
| PG                 | 20        |
| Integrated Masters | 02        |
| M.Phil.            | 03        |
| Ph.D.              | 10        |
| Integrated Ph.D.   | 00        |
| Certificate        | 00        |
| Diploma            | 00        |
| PG Diploma         | 00        |
| Any other (MCA)    | 01        |
| <b>Total</b>       | <b>47</b> |

**18. Number of working days during the last academic year.**

245 Days

**19. Number of teaching days during the past four academic years.**

720 Days (180 Days in each academic year)

**20. Does the university have a department of Teacher Education?**

Yes [ ] No [  ]

If yes,

- Year of establishment ..... (dd/mm/yyyy)
- NCTE recognition details (if applicable) Notification No.:  
.....  
Date: ..... (dd/mm/yyyy)
- Is the department opting for assessment and accreditation separately?  
Yes [ ] No [ ]

**21. Does the university have a teaching department of Physical Education?**

Yes [ ] No [  ]

If yes,

- Year of establishment ..... (dd/mm/yyyy)
- NCTE recognition details (if applicable) Notification No.:  
.....  
Date: ..... (dd/mm/yyyy)
- Is the department opting for assessment and accreditation separately?

Yes [ ] No [ ]

**22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?**

Yes [ ] No [  ]



**23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.**

The University has started in the year 2009. It has got 2(f) status of UGC in 2010 and 12b status in 2012. The review of the UGC for 12b status has not yet been done by UGC.

**24. Number of positions in the university**

| Positions  | Teaching Faculty |                     |                     |     |  |
|--|------------------|---------------------|---------------------|-----|--|
|  | Professor        | Associate Professor | Assistant Professor |     |  |
| Santioned by the UGC / University / State Government | 46               | 95                  | 161                 | 191 |  |
| Recruited  | 21               | 39                  | 101                 | 161 |  |
| Yet to recruit                                       | 25               | 56                  | 60                  | 30  |  |
| Number of persons working on contract basis          | 0                | 0                   | 28                  |     |  |

**25. Qualifications of the teaching staff**

| Highest Qualification     | Professors |        | Associate Professor |        | Assistant Professor |        | Total |
|---------------------------|------------|--------|---------------------|--------|---------------------|--------|-------|
|                           | Male       | Female | Male                | Female | Male                | Female |       |
| <b>Permanent Teachers</b> |            |        |                     |        |                     |        |       |
| D.Sc./D.Litt.             | 0          | 0      | 0                   | 0      | 0                   | 0      | 0     |
| Ph.D.                     | 21         | 0      | 32                  | 3      | 14                  | 7      | 77    |
| M.Phil.                   | 0          | 0      | 0                   | 0      | 0                   | 3      | 3     |
| PG                        | 0          | 0      | 3                   | 1      | 44                  | 33     | 81    |
| <b>Temporary Teachers</b> |            |        |                     |        |                     |        |       |
| Ph.D.                     | 0          | 0      | 0                   | 0      | 1                   | 2      | 3     |
| M.Phil.                   | 0          | 0      | 0                   | 0      | 5                   | 2      | 7     |
| PG                        | 0          | 0      | 0                   | 0      | 7                   | 4      | 11    |
| <b>Part-time teachers</b> |            |        |                     |        |                     |        |       |
| Ph.D.                     | 0          | 0      | 0                   | 0      | 0                   | 0      | 0     |
| M.Phil.                   | 0          | 0      | 0                   | 0      | 0                   | 0      | 0     |
| PG                        | 0          | 0      | 0                   | 0      | 0                   | 0      | 0     |

**26. Emeritus, Adjunct and Visiting Professors.**

|        | Emeritus | Adjunct | Visiting |
|--------|----------|---------|----------|
| Number | 0        | 0       | 4        |

**27. Chairs instituted by the university:**

|                    | Chairs |
|--------------------|--------|
| School/ Department | 0      |

**28. Students enrolled in the university departments during the current academic year, with the following details:**

| Students  | UG         | PG         | Integrated Masters | M. Phil   | Ph.D.     | Integrated Ph.D. | D.Litt./ D.Sc. | Certifi cate | Diploma  | PG Diploma |
|---|------------|------------|--------------------|-----------|-----------|------------------|----------------|--------------|----------|------------|
|   | *M<br>*F   | *M<br>*F   | *M<br>*F           | *M<br>*F  | *M<br>*F  | *M<br>*F         | *M<br>*F       | *M<br>*F     | *M<br>*F | *M<br>*F   |
| <b>From the state where the University is located</b> | 668<br>305 | 192<br>135 | 05<br>13           | 05<br>03  | 37<br>16  |                  |                |              |          |            |
| <b>From other state of India</b>                      | 7<br>3     |            |                    |           |           |                  |                |              |          |            |
| <b>NRI Students</b>                                   |            |            |                    |           |           |                  |                |              |          |            |
| <b>Foreign Students</b>                               |            |            |                    |           |           |                  |                |              |          |            |
| <b>Total</b>  | <b>983</b> | <b>327</b> | <b>18</b>          | <b>08</b> | <b>53</b> | <b>0</b>         | <b>0</b>       | <b>0</b>     | <b>0</b> | <b>0</b>   |

\*M - Male \*F – Female

**29. ‘Unit cost’ of education**

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)*

- (a) including the salary component = Rs 1,29,000/-
- (b) excluding the salary component = Rs 59,000 /-

**30. Academic Staff College : Applied to UGC**

Year of establishment .....

Number of programmes conducted (with duration)

- UGC Orientation
- UGC Refresher
- University’s own programmes

**31. Does the university offer Distance Education Programmes (DEP)?**

Yes [ ] No [  ]

**32. Does the university have a provision for external registration of students?**

Yes [ ] No [  ]

**33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle.**

Cycle 1 [  ]      Cycle 2 [ ]      Cycle 3 [ ]      Cycle 4 [ ]

Re-Assessment: [ ]

**34. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**

Cycle 1: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 2: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 3: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

Cycle 4: ..... (dd/mm/yyyy), Accreditation outcome/Result .....

\* Kindly enclose copy of accreditation certificate(s) and peer team report(s)

**35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.**

Not applicable

**36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

IQAC: 06/01/2015 (dd/mm/yyyy)

AQAR: (i)..... (dd/mm/yyyy) Not applicable

(ii)..... (dd/mm/yyyy)

(iii)..... (dd/mm/yyyy)

(iv)..... (dd/mm/yyyy)

**Any other relevant data, the university would like to include (not exceeding one page).**

A brief snapshot of the VSSUT is presented here.

- 1<sup>st</sup> Unitary Technical University of the State covered under 2(f) and 12B of UGC Act..
- 1<sup>st</sup> Engineering College of the State established in 1956 under the name UCE, Burla
- 59 years of experience in engineering education, consultancy and research
- Produced more than 25000 graduate engineers, 5000 post-graduate engineers, and good number of Ph.Ds
- The University offers following courses :
  - ❖ B. Tech. Programmes in 11 engineering disciplines
  - ❖ M. Tech Programmes in 20 specializations
  - ❖ M.Sc. programmes in 3 specializations
  - ❖ 5yr Integrated M.Sc. programmes in 2 specializations
  - ❖ M.Phil programmes in 3 specializations
  - ❖ M.C.A. programme
  - ❖ Ph.D. programmes
- 1<sup>st</sup> College to offer PG programme in engineering
- UCE only college in Orissa to have been recommended by the State Government to MHRD for up gradation to IIT status in 2004.

- It has good library with Journals and Books
- It has very big auditorium with 1200 capacity
- It has total 166.48b acers and in the process of accquiring 200 more acers.
- The University has a strong alumni base, most of them occupying coveted positions in many educational, industrial and research organizations all over the world
- Surrounded by institutes such as Sambalpur University and VSS Medical College and big industries such as MCL, HINDALCO, Bhusan Steel, OHPC, L&T, NALCO, NTPC, OPGC, TRL, etc.

## CRITERION I : CURRICULAR ASPECTS

### 1.1 Curriculum Design and Development

#### History of the University

The Veer Surendra Sai University of Technology (VSSUT) Odisha was formed by Orissa Act 9 of 2009 by converting University College of Engineering (UCE), Burla to a non-affiliating Unitary University and came into force by issue of notification by the Industries Department, Government of Odisha from 1st day of July 2009 (Vide memo No.IV/TTI-33/2009-8553 and 8564 dtd.10th June 2009). The 1st Statutes of VSSUT, Burla 2010 has been approved by the Odisha Government vide Industry Department notification No.V-FE-II-01/2010/8697 dated 21st June, 2010. This State Government University is also recognized by University Grants Commission (UGC), New Delhi vide UGC letter No.. F.9-36/2009(CPP-I) dtd.5th Jan 2010. The University is empowered to award degrees as specified by the UGC under section 22 of the UGC Act. Proposal for 12(B) fitness of UGC has already been submitted to UGC. This legendary University is named after Veer Surendra Sai, the great Indian freedom fighter from western Odisha. Situated at the foothill of world famous Hirakud dam, the early history of the University is a fascinating chapter in the story of technical education in Odisha. Established on 12th Aug. 1956, at Burla in the name of University College of Engineering (UCE), the first engineering college was functioning as a constituent college of Utkal University, Bhubaneswar. The primary objective was of establishing the engineering college is to produce engineers who can manage Hirakud Dam. The University occupies nearly 166.48 acres of prime land in Burla and in the process of acquiring 200 more acres. Indeed, the contribution from the Irrigation Department of Odisha was the decisive element in determining the location of this University.

The Burla town lies at one end of Hirakud Dam which is located around 2 km north-west of the town. It is piquant and truly a university town as it hosts the Sambalpur University, the VSS Medical College and the Veer Surendra Sai University of Technology, Burla, besides numerous schools and colleges. It is the most ideal place for learning and to achieve one's privileged dreams. Burla is well connected to Bhubaneswar, Jharsuguda, Raipur and Kolkata with roads and railways. Burla is only 10 km away from Sambalpur by road and railways.

In 1956, UCE started with 20 students enrolling into 3 branches, namely the Civil Engineering, the Electrical Engineering and the Mechanical Engineering. Subsequently, UCE got transferred to the administrative control of Sambalpur University in January 1967 and later on to Biju Patnaik University of Technology (BPUT) by BPUT Act-2002 in July, 2002.

With a glorious history stretching back over 60 years, providing technical education within a modern educational environment and strong academic staff, VSSUT is strongly identified with engineering education in India. Since its inception and foundation, VSSUT has constantly lead the way in reform movements, taking pivotal roles in the reconstruction, modernization, and administration of the society. The University has a strong alumni base, most of them occupying coveted positions in many educational, industrial and research organizations all over the world.

The efforts and expertise of VSSUT graduates have been major contributors in the planning and construction of Odisha's infrastructure.

VSSUT provides its students with modern educational facilities while retaining traditional values, as well as using its strong industrial contacts to mold young, talented individuals who can compete in the global arena. The aim of VSSUT is to rank among leading universities globally. Consequently, VSSUT's mission is to educate individuals to be competitive not only in India, but all over the world. Within an intensely competitive environment, the University has adopted a dynamic, global, high-quality, creative and communicative approach in education, as well as research and development.

Keeping abreast with modern developments, VSSUT is constantly restructuring itself and renovating its physical infrastructure as well as its research and education facilities. Facilities in laboratories of various departments and central facilities such as Computer Centre, Library, Internet Centre and workshop, separate hostels for boys and girls, conference hall, recreational amenities and other utility services are adequately available for the students in the Campus. Semester system is being followed for both Undergraduate and Post graduate programmes. Medium of Instruction and teaching is English. The syllabus is updated at regular intervals keeping an eye to the advancements in technology and need of the industries so as to maintain the level of technical education at par with other institutes of international repute. The University has infrastructures for all the indoor and outdoor games.

The following academic programmes are available at VSSUT

- Bachelor of Technology(B.Tech)
- Master of Technology(M.Tech)
- Master of Science(M.Sc.)
- Master of Philosophy (M. Phil)
- Master in Computer Application(MCA)
- Doctor of Philosophy(Ph.D.)

Admissions to various Masters programmes offered are conducted by University. However, the students to B.Tech as well as MCA Programme get admitted through Odisha Joint Entrance Examination(OJEE) conducted by Government of Odisha. All the engineering courses of the University are AICTE approved. The University has a QIP Centre for Ph.D. programmes in Engineering disciplines. The University admits full time Scholars to the Ph.D. Programmes in Engineering disciplines as well as in the field of Applied Sciences.

The Training and Placement section plays a very important and key role in counseling and guiding the students of the University for their successful career placement. More than 50 reputed National and Multinational companies visit VSSUT for campus recruitment annually. 100% of the students secure job offers before they complete their programme of studies and leave the University. The placement section ensures and takes care to provide the best arrangements and hospitality for the visiting companies' officials. Further, students of this University are doing extremely well in national level examinations like GATE, CAT, MAT, XAT, GRE, TOEFEL, IES and other competitive examinations.

#### **1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?**

## University Vision and Mission

### Vision

To emerge as an internationally acclaimed Technical University to impart futuristic technical education and creation of vibrant research enterprise to create quality engineers and researchers, truly world class leader and unleashes technological innovations to serve the global society and improve the quality of life.

### Mission

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

- Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- Collaborative partnership with industries and academia within and outside the country in learning and research.
- Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- Facilitating technology transfer, innovation and economic development to flow as natural results of research wherever appropriate.
- Expanding curricula to cater broader perspectives.
- Creation of service opportunities for upliftment of the society at large.

The key concepts in the vision and mission are used as indicators to enlist all the programmes that are directly related to them. The vision and mission of the University is reflected in the academic programmes in the following ways:

- All the courses are designed based on changing needs of the industry so that students are exposed to learn the fundamental subjects in mathematics, science and engineering along with learn the core subjects in their own domain.
- Students are required to do their project work in the latest area so as to identify, formulate, design and solve engineering problems which will lead to enhance their technical skills.
- Students are encouraged to participate in co-curricular and extracurricular activities which will enhance their professional and ethical responsibility.
- Faculties are encouraging the students to do socially relevant projects which will ultimately used by the society.
- Faculty members are engaged to do research work as well as submit project proposal to different external funding agencies.
- Different collaborations with industry helps in solving mutually agreed problem and ultimately it helps the students.
- Faculties are involved in socially relevant consultancy work.
- National and international level seminars, workshops and conferences are organized to expose to latest technology and provide in depth knowledge.

**1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).**

Curriculum becomes an important activity within the stipulated framework which achieves goals and objectives of the university, responding to the needs of the industry, society and finally the modernized changing world.

One of the important functions of the curriculum is to provide a template or design which enables learning to take place during a course of programme of study in terms of knowledge, skills and attitude. The curriculum is designed in following phases:

Phase-I Preliminary phases

Phase-II Design phases

Phase-III Feedback and assessment phases

### **Phase-I Preliminary phases**

The current needs of the industry and society are assessed and the draft syllabus is designed by the team consisting of Department Head and faculty members of the respective departments. Opinions are also collected from different stakeholders while preparing the syllabus. The other renowned universities syllabus is also collected from different sources and finally the draft syllabus is prepared.

Number of subjects and the total number of credits also to be decided by the curriculum team based on the guidelines provided by UGC and AICTE. The curriculum is framed such that it has 33% of practical subjects and 67% of theory subjects. The theory courses should have a mixture of basic mathematical courses, professional core subjects, English communication skills subjects, programming subjects, elective courses, environmental science and management subjects.

### **Phase-II Design phases**

After framing the curriculum and the syllabus, the Board of Studies (BOS) meeting is conducted with the consent of the Vice-Chancellor. In this meeting the syllabus is thoroughly reviewed by the members of the BOS which include subject experts from IIT, NIT, research bodies and industry personnel. BOS is free to add/delete contents of the syllabus and/or add/delete the subjects. Based on the suggestions and recommendations by the BOS members necessary corrections are incorporated to the curriculum and syllabus. Finally, the corrected version of the curriculum is submitted to the academic council for final approval.

### **For UG Courses**

|   |          |
|---|----------|
| One internal examination                    | 20 Marks |
| Attendance                                  | 5 Marks  |
| Quiz / Assignments / Technical presentation | 5 Marks  |

### **For PG Courses**

|  |          |
|--|----------|
| One internal examination                 | 20 Marks |
| Attendance                               | 5 Marks  |
| Quiz/ Assignments/Technical presentation | 5 Marks  |

### **Phase-III Feedback and assessment phases**

After implementing the curriculum, feedback is obtained from students, industry and other stakeholders to assess the outcome of the programme and accordingly refine the curriculum and syllabi considering their recommendations/suggestions.



### **1.1.3 How are the following aspects ensured through curriculum design and development? (Employability, Innovation, Research)**

#### **Employability**

For employability, student is expected to know domain knowledge, good communication skills, knowledge in basic engineering and programming skills. Curriculum is designed by taking into account all the above parameters. Development of communication skills, project based learning, experiential learning are part of the knowledge incorporated in the curriculum. Internship, industrial visits, participation in technical symposiums are part of the activities which are important to improve the employability skills. Different pedagogical teaching methodology helps a student to improve intrapersonal, interpersonal, mathematical & logical, linguistic, spatial and other intelligences.

#### **Innovation**

There are student technology club such as robotics club, SAE club, literary club, Think club etc. Further, innovation aspects are ensured by introducing advanced topic in the syllabus and by presenting papers. Also, the students are required to do projects which are part of the curriculum. Project for the society helps the student to innovate and develop products for them which will be used for their livelihood. Conduction of different entrepreneurship development programmes helps the student to think beyond curriculum.

#### **Research**

Research is given importance in the University along with effective teaching-learning process. Teachers are encouraged to publish papers in journals and conferences. Further, university offers a Ph.D programme in almost all the departments. Ph.D students along with faculty members do research in different areas of study. Many departments have received grants from external funding agencies such as AICTE, DST, DRDO etc. Number of departments offer consultancy to various Govt. and private agencies.

### **1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?**

The university strictly follows the guidelines prescribed by the regulatory bodies mainly, UGC and AICTE. The university also adheres to the norms of the state Government.

Some of the curriculum which has created a national impact are as follows:

- Professional ethics, Environmental engineering, Cyber laws etc. are included in the curriculum.
- Advanced topics, latest developmental issues are included in each course as part of its contents.
- Project based learning, experiential learning, use of different teaching methodology are unique in the university.

- Continuous evaluation creates an impact in teaching-learning process.

**1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?**

University is continuously obtain feedback from all the stakeholders especially from alumni and industry regarding curriculum development. The representative from alumni, civil society and industry are included in the Board of studies in all departments. They give their suggestions regarding the latest development and the needs of the society in present days. These inputs are considered and deliberated in the BOS meeting which is used in preparation of the curriculum.

The university has benefitted through interactions with the stakeholders in designing updated and effective curriculum and syllabi.

**1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.**

University is unitary; hence it doesn't have affiliated colleges.

**1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).**

University is unitary; hence it doesn't have affiliated colleges, however all the departments in the university encourage the students to take up skill-oriented programmes. The departments also facilitate the students by providing laboratories and experienced faculty for training certification courses and skill oriented programmes relevant to regional needs.

## **1.2 Academic Flexibility**

**1.2.1 Furnish the inventory for the following:**

- Programmes taught on campus
- Overseas programmes offered on campus
- Programmes available for colleges to choose from

**Programmes taught on campus**

The following programmes are provided in the university

### **UG PROGRAMME**

- B.Tech Civil Engineering
- B.Tech Mechanical Engineering
- B.Tech Electrical Engineering
- B.Tech Electrical and Electronics Engineering
- B.Tech Electronics and Telecommunication Engineering
- B.Tech Computer Science and Engineering
- B.Tech Information Technology

- B.Tech Production Engineering
- B.Tech Metallurgy and Materials Engineering
- B.Tech Chemical Engineering
- Bachelor of Architecture

## **PG PROGRAMME**

### **M.Tech in Civil Engineering**

Specialization

- Water Resources Engineering
- Structural Engineering
- Transportation Engineering
- Geo-technical Engineering
- Environmental Science & Engineering

### **M.Tech in Electrical Engineering**

Specialization

- Power System Engineering
- Power Electronics Control & Drives

### **M.Tech in Mechanical Engineering**

Specialization

- Machine Design & Analysis
- Heat Power Engineering
- Production Engineering

### **M.Tech in Electronics & Telecommunication Engineering**

Specialization

- Communication Systems
- VLSI Signal Processing

### **M.Tech in Computer Science & Engineering**

Specialization

- Computer Science & Engineering

### **M.Tech in Information Technology**

Specialization

- Information & Communication Technology

### **M.Tech in Production Engineering**

Specialization

- Manufacturing Systems
- Industrial & Production Engineering

### **M.Tech in Mathematics**

Specialization

- Computational Mathematics & Data Processing

**Master of Computer Applications (MCA)**

**2 YEARS M.Sc. PROGRAMME (FULL TIME)**

Specialization

- Applied Physics
- Industrial Chemistry
- Applied Mathematics

**5 YEARS INTEGRATED M.Sc. PROGRAMME (FULL TIME)**

- Physics
- Chemistry

**1 YEAR M.Phil PROGRAMME (FULL TIME)**

- Physics
- Chemistry
- Mathematics

**Ph. D. PROGRAMME**

1. Civil Engineering
2. Electrical Engineering
3. Mechanical Engineering
4. Electronics & Telecommunication Engineering
5. Computer Science & Engineering
6. Production Engineering
7. Physics
8. Chemistry
9. Mathematics

**Overseas programmes offered on campus**

University is not offering any overseas programmes on campus.

**Programmes available for colleges to choose from**

Not applicable

**1.2.2 Give details on the following provisions with reference to academic flexibility**

**a. Core/Elective options**

Core subjects are provided to all the students to deliver the domain knowledge in each branch of studies. However, students are offered with elective courses in fourth year of engineering. Different options are given to the students to choose the electives from large number of subjects. Common and professional core subjects are provided from first semester to sixth semester. The distributions of subjects for the undergraduate programmes are as follows:

|                                      |     |
|--------------------------------------|-----|
| Common subjects                      | 25% |
| Core/Management/Environment subjects | 60% |
| Professional Elective subjects       | 15% |

However, for postgraduate programmes 60% subjects are of professional core and 40% subjects are electives. The students are also given the flexibility of choosing one or two interdepartmental electives.

Our Board of Studies and subsequently Academic Council have approved more elective courses and choice based credit system which will be implemented from academic session 2015-16.

**b. Enrichment courses**

Every department in the university is organizing several enrichment courses for the benefit of the students. Various certificate courses/workshops/seminars are offered to supplement the university curriculum which will make the students equipped with in-depth knowledge to increase their employability potential. The following enrichment courses are provided to the students:

- Workshops and seminars on advanced topic of studies on regular basis provided in all department.
- National/international conferences
- Guest lectures by eminent industry experts
- Communication skills, analytical & logical skills, group discussions exclusively for pre-final and final year students to face the campus interviews
- Ethical hacking, android, robotics, Autocad etc.

**c. Courses offered in modular form**

To justify the subjects that are too huge (fundamental and advanced/application) to be accommodated in a single semester the university offers these courses in modular form in every department. The former subjects of the modular courses act as a prerequisite consisting of fundamental knowledge of the course where as the later subjects of the same act as the advanced/application topic.

| Departments                              | Courses offered in the modular form  |
|--|--|
| B.Tech, Mechanical Engineering           | <ul style="list-style-type: none"> <li>• Engineering Drawing → CAD Lab</li> <li>• Machine design I → Machine Design II, Machine Dynamics I → Machine Dynamics II, Mechanics of Solids → Advanced Mechanics of Solids,</li> <li>• Manufacturing technology-I → Manufacturing technology-II</li> <li>• Thermodynamics → Thermal engineering</li> </ul>   |
| B.Tech, Computer Science and Engineering | <ul style="list-style-type: none"> <li>• Programming C → Object oriented programming in C++ → Data Structures → Design analysis of algorithm</li> <li>• Computer Organization → Advanced computer architecture</li> <li>• Discrete Mathematical Structures → Theory of Computation → Compiler Design</li> <li>• Computer networks → Internet &amp; Web technology-I → Internet &amp; Web technology-II</li> <li>• Operating System → Advanced Operating system</li> <li>• Digital Electronics → Microprocessor and micro computer</li> </ul> |
| B.Tech, Information Technology           | <ul style="list-style-type: none"> <li>• Programming C → Object oriented programming in C++ → Data Structures → Design analysis of algorithm</li> <li>• Computer Organization → Advanced computer architecture</li> <li>• Discrete Mathematical Structures → Theory of Computation → Compiler Design</li> <li>• Computer networks → Internet &amp; Web technology-I → Internet &amp; Web technology-II</li> <li>• Operating System → Advanced Operating system</li> </ul>  |

|  |  |
|--|--|
|  | <ul style="list-style-type: none"> <li>• Digital Electronics → microprocessor and micro computer</li> </ul>  |
| B.Tech, Electronics and Tele communication     | <ul style="list-style-type: none"> <li>• Basic Electronics → Analog electronics → Advanced Electronics</li> <li>• Digital Electronics →Microprocessors→ Microcontrollers and Embedded system</li> <li>• DSP →ADSP, Analog communication Techniques →Digital Communication Techniques →Communication System Engineering.</li> </ul>   |
| B.Tech, Electrical and Electronics Engineering | <ul style="list-style-type: none"> <li>• Electrical machines I →Electrical Machines II, Power Systems I→ Power Systems II →Power Systems III, Signals and Systems I →Signals and systems II,</li> <li>• Control system I →Control system II, Power Electronics→ Electric drives and traction, Digital Electronics → Microprocessor and micro Controllers→ Embedded system</li> </ul>   |
| B.Tech, Electrical Engineering                 | <ul style="list-style-type: none"> <li>• Electrical machines I→Electrical Machines II, Power station Engineering→Transmission and Distribution→Switch gear and protection →Power system operation and control</li> <li>• Control system I→Control system II, Digital Electronics → Microprocessor and micro Controllers→ Embedded system</li> </ul>                                    |
| B.Tech, Civil Engineering                      | <ul style="list-style-type: none"> <li>• Survey-I→ Survey-II, Mechanics of material → Structural analysis I → Structural analysis II , Structural design I → Structural design II, Geo-technical Engineering I→Geo-technical Engineering II, Fluid mechanics→ Fluid dynamics.</li> </ul>   |
| B.Tech Production Engineering                  | <ul style="list-style-type: none"> <li>• Automation and numerical control machine → Robotics, Basic manufacturing process → Theory of metal forming, Basic manufacturing process → Advanced casting and welding, Design of machine element →Principle of machine tools, Non-traditional machining → Precision Engineering.</li> </ul>  |
| B.Tech, Architecture                           | <ul style="list-style-type: none"> <li>• Building materials I→ Building materials II, Structural mechanics I → Structural mechanics II, Structural Design I → Structural Design II, Architectural design I → Architectural Design II, Architectural drawing and graphics I → Architectural drawing and graphics II, History of architecture I → History of architecture II.</li> </ul> |

In addition to the above mentioned courses, the university also offers engineering mathematics, communication skills, physical science, management and environmental science in modular form in all the departments of UG and PG programmes.

**d. Credit accumulation and transfer facility**

Credit accumulation and transfer facility is not provided to the students as it is a Unitary University.

**e. Lateral and vertical mobility within and across programmes, courses and disciplines**

The university allows lateral mobility within discipline after first year of the UG programmes. The branch change exercise is carried out strictly on merit basis. However, there is no provision for vertical mobility in the University.

**1.2.3 Does the university have an explicit policy and strategy for attracting international students?**

The university is planning collaborative programme with foreign universities such as

- University of New Orleans, USA
- Florida International University

- University of Illinois, Chicago
- BTH (Blekinge Technical University), Sweden
- Asian Institute of Technology (AIT), Bangkok

**1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

The university is planning collaborative programme with foreign universities mentioned in 1.2.3, so, courses will be developed in due course targeting international students. At present, the courses have been designed in the university so that the students can compete with international students and considering the international job market.

**1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.**

At present, dual degree programmes are not offered, however the Board of Studies and Academic Council approved the dual degree programmes which will be started from the academic session 2015-16.

**1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

The Veer Surendra Sai University of Technology (VSSUT) Odisha offers a few seats in each of the following courses under self-financing mode:

- B.Tech Civil Engineering: 30 + 3 (Lateral Entry)
- B.Tech Computer Science and Engineering: 30 + 3 (Lateral Entry)
- B.Tech Information Technology: 60 + 6 (Lateral Entry)
- B.Tech Production Engineering: 30 + 3 (Lateral Entry)

The students are admitted to the above programmes by All India Joint Entrance Examination strictly on merit basis in online counseling mode. The fee structure of the programme, teacher qualification and salary of teachers of the programmes are fixed by State Govt.

**1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details.**

The university offers only conventional face to face mode of education to the students.

**1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?**

At present Choice Based Credit System (CBCS) is not offered for its academic programmes however, the students can choose various electives from a large pool of subjects. The Board of studies and Academic council has already approved CBCS which will be implemented from academic session 2015-16.

**1.2.9 What percentage of programmes offered by the university follow:**

- **Annual system** -NIL
- **Semester system**-100%
- **Trimester system** -NIL

**1.2.10 How does the university promote inter- disciplinary programmes? Name a few programmes and comment on their outcome.**

The following programmes of the University are inter-disciplinary in nature:

- B.Tech in Information Technology (IT)/ B.Tech in Computer Science and Engineering(CSE)/Master of Computer Applications (MCA)
- B.Tech in Electrical Engineering (EE)/ B.Tech in Electrical and Electronics Engineering(EEE)/ B.Tech in Electronics and Telecommunication Engineering(ETC)
- B.Tech in Civil Engineering (CE)/ B.Arch in Architecture(Arch)
- B.Tech in Mechanical Engineering (ME)/ B.Tech in Production Engineering(PE)/ B.Tech in Metallurgy and Material Engineering(MME)

However, most of the PG programmes of the University are inter-disciplinary in nature. The inter-disciplinary programmes are designed to meet the need of the students in research and there is an ample scope for employability.

### **1.3 Curriculum Enrichment**

**1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?**

In order to keep the students tuned to the latest trends in the emerging areas and also to go in line with the industrial needs and global competition, the curricula and syllabi are enriched once in four year. However, as and when the need arises there is a provision to upgrade the curricula and syllabi.

**1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.**

**Inter-disciplinary:**

The following UG and PG programmes are introduced in last four years.

**UG PROGRAMME**

- B.Tech in Metallurgy & Materials Engineering (introduced in the year 2013)
- B.Tech in Architecture (introduced in the year 2013)
- B.Tech in Chemical Engineering (introduced in the year 2014)

**PG PROGRAMME**

**Civil Engineering**

- Geo-technical Engineering (introduced in the year 2012)
- Environmental Science & Engineering (introduced in the year 2012)



**Electrical Engg.**

- Power Electronics Control & Drives (introduced in the year 2011)

**Electronics & Telecommunication Engineering**

- VLSI Signal Processing (introduced in the year 2012)

**Computer Science & Engg. & IT**

- Information & Communication Technology (introduced in the year 2013)

**Production Engineering**

- Industrial & Production Engineering (introduced in the year 2012)

**2 YEARS M.Sc. PROGRAMME (FULL TIME)**

- Applied Mathematics (introduced in the year 2011)

**5 YEARS INTEGRATED M.Sc. PROGRAMME (FULL TIME)**

- Physics (introduced in the year 2014)
- Chemistry (introduced in the year 2013)

**1 YEAR M.Phil PROGRAMME (FULL TIME)**

- Physics
- Chemistry
- Mathematics

**Programmes in emerging areas**

Some of the PG programmes are introduced in emerging areas which are as follows:

- Water Resources Engineering
- Geo-technical Engineering
- Environmental Science & Engineering
- VLSI Signal Processing
- Information & Communication Technology
- Industrial & Production Engineering
- Applied Physics
- Industrial Chemistry
- Applied Mathematics

**1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?**

Percentage of evaluation has been increased from 30% to 40%. Additional projects have been introduced for 3<sup>rd</sup> year and 4<sup>th</sup> year B. Tech students.

Based on the feedback received from the stakeholders, industry experts and academic peers from institute of repute the redesigning of the curriculum including the rearrangement of different topics, inclusion of latest evolved topics and exclusion of outdated topics is done by the department and subsequently by the Board of studies every four years.

Board of studies comprising of expert committee, subject expert, industry experts academic peers from institute of repute and alumni discuss and considers the inputs received from all the stakeholders and then redesign the curriculum considering the international scenario and industry needs.

### **1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?**

Every department in the university is organizing value added courses for the benefit of the students in the latest and developing areas of engineering and computing sciences. Some of the activities and courses offered to supplement the university curriculum which will make the students equipped with in-depth knowledge to increase their employability potential are as follows:

- Workshops and seminars on advanced topic of studies on regular basis provided in all department.
- National/international conferences
- Guest lectures by eminent industry experts
- Communication skills, analytical & logical skills, group discussions exclusively for pre-final and final year students to face the campus interviews
- Ethical hacking, android, robotics, Autocad etc.
- Computer integrated manufacturing
- Project and maintenance management
- Coaching classes for preparing GATE examinations for Pre-final year and final year students.

### **1.3.5 Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

The University provides following skill development programmes to abreast the skills and knowledge of the students and increase the employability potential.

- Robotics club and SAE chapter to develop robots and all-terrain vehicle respectively
- Departmental society helps the students to improve their technical skills in organizing various technical events, exhibition and model presentation/paper presentations etc.
- Software training programme on latest technology
- Training programme on Autocad
- Training programme arranged for the students to get training on Pro-E, Catia, Ansys etc.

## **1.4 Feedback System**

### **1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?**

Feedback regarding the curriculum is collected in two different manners.

- Students conduct their own meeting department wise along with some senior faculty members and give their suggestions regarding the curriculum which is provided to BOS for further processing.
- University is having a feedback mechanism to collect the views of the students regarding curriculum and syllabus. The feedback is collected in online mode and students give their suggestions. These suggestions are discussed in the departmental

meetings and finally in the BOS and the required changes are incorporated in the curriculum and syllabus. Some students are member of academic council.

**1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.**

Yes. There is a feedback mechanism to collect the opinion of national and international faculty regarding curriculum and syllabus. Sometimes the feedbacks from them are collected in e-mail. The subject experts from IITs and NITs are part of BOS and Academic Council where the syllabus is discussed and approved.

The informal feedback is also collected when the reputed Professors visit the University during the time of conferences, seminars, workshops and finally during the time of project examinations. Feedbacks regarding their suggestions are recorded for further processing at our end.

**1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.**

University is unitary, so it doesn't affiliate any institutions.

**1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?**

The feedback collected from all the stakeholders are discussed and debated in the department meetings and subsequently in BOS. Based on the discussions, some of the amendments and recommendations are made in the existing syllabus. Finally, the syllabus is refined and it is placed in the Academic Council for approval. In this way, the quality of University is improved and sustained.

Some of the changes incorporated in the syllabus based on feedbacks obtained are as follows:

- Big data analytics, cloud computing and cyber security
- Project based learning
- Introduction of industrial hydraulics, safety engineering, project management, entrepreneurship and e-business.
- Delivery of theory and practice in the same semester has been incorporated.
- Introduction of more open electives to cater the need of broader spectrum of students
- Forecasting and risk management (data analysis and regression) of the market have been incorporated in Engineering Economics syllabus

***Any other information regarding Curricular Aspects which the university would like to include.***

The university syllabus and curriculum is designed to support inter-disciplinary learning. Inter-disciplinary courses are introduced in electives to promote inter-disciplinary research by the students and faculty. In this manner, student can study elective courses offered by other

departments. University provides experiential learning to the students by providing more practical classes. Continuous teaching learning process helps the students to learn each and every subject in a better and systematic manner. Following recommendations are made in the current curriculum design process which will be implemented from academic session 2015-16.

- More projects in 3<sup>rd</sup> year and final year to achieve project based learning
- Choice based credit system
- More emphasis on continuous learning
- Introduction of 40% internal assessment which includes problems with innovative ideas of the students and 60% of end semester evaluation in all theory subjects

## **CRITERION II : TEACHING-LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

#### **2.1.1 How does the university ensure publicity and transparency in the admission process?**

Admission to the University is carried out in the following manners depends on the programme. However, admission to all the B.Tech as well as MCA Programme is coordinated by the Convenor Odisha Joint Entrance Examination (OJEE) Government of Odisha.

The admissions are done by the State Government for the sanctioned intake for all the engineering colleges in the state through Single Window on-line counselling coordinated by OJEE, Government of Odisha.

For B.Tech programmes admission is carried out based on the JEE-Main (conducted by CBSE) examination rank. The rank list is released by JEE-Main based on the score obtained by the students in the entrance examination. The students can opt for the college/university of their choice depending on their rank in on-line counselling mode which is coordinated by the OJEE Government of Odisha. Top ranked students opt for VSSUT.

OJEE conducts the entrance examination to admit the students in MCA and lateral entry of diploma holders in third semester of B.Tech programme. The rank list is released by OJEE based on the score obtained in the entrance examination.

The students can opt for the college /University of their choice depending on the availability of the seat in that particular college during the time of counselling again in on-line counselling mode.

Rank list is prepared for the Masters programmes including 5 years integrated M.Sc courses on the basis of career marks/GATE/NET scores. The entrance tests for admission to various Ph.D and M.Phil are conducted by the VSSUT entrance test and personal interview. The rank list is released by the university based on the score obtained by the students in the entrance examination and personal interview. The students can take admission in to the programme based on their merit list. The University has an AICTE sponsored QIP Centre for pursuing Ph.D. programmes in five Engineering disciplines. In addition, the university admits full time Scholars to the Ph.D. Programmes in Engineering disciplines as well as in the field of Applied Sciences.

Detailed admission related information is available in the university website [www.vssut.ac.in](http://www.vssut.ac.in). Since it is a Government unitary university students give their first choice for admission in to the programme.

**2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).**

For B.Tech programmes admission is carried out based on the JEE-Main (conducted by CBSE) examination rank. The rank list is released by JEE-Main based on the score obtained by the students in the entrance examination. The students can opt for the college/university of their choice depending on their rank in on-line counselling mode which is coordinated by the OJEE Government of Odisha.

OJEE conducts the entrance examination to admit the students in MCA and lateral entry of diploma holders in third semester of B.Tech programme. The rank list is released by OJEE based on the score obtained in the entrance examination.

The students can opt for the college /University of their choice depending on the availability of the seat in that particular college during the time of counselling again in on-line counselling mode.

Admissions to Masters programmes offered are made by the university in a transparent manner. For Ph.D programmes all departments conducts their own entrance test followed by personal interviews. The University has AICTE sponsored QIP Centre for Ph.D. programmes in five Engineering disciplines. In addition, the university admits full time Scholars to the Ph.D. Programmes in Engineering disciplines as well as in the field of Applied Sciences.

**2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.**

University is unitary. Hence, it does not affiliate any colleges.

**2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

The university has no role to play in the admission process of B.Tech programme as the admissions are done by OJEE, Government of Odisha on the basis of merit list published by JEE-Main. The students basically opt the university based on the past record in the teaching learning process, well equipped laboratories and dedicated faculty members available etc. For the past 60 years, our university is the first choice of the students in all branch of engineering. PG (except MCA) and Ph.D programmes admissions are done in the university level. After admission is over each department review the admission process and student profile in admission. To further strengthen the admission process, we have decided to conduct the admission process of Ph.D programmes in a centralized manner to improve the process of admission and to attract quality students in the programme. Our analysis indicates that since PG admissions are made on the basis of career marks, GATE and NET score, so the quality of students admitted to the university is outstanding.

**2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:**

- SC/ST
- OBC
- Women
- Persons with varied disability
- Economically weaker sections
- Outstanding achievers in sports and other extracurricular activities

Government reservation policy is followed in admission to all the programmes and it is carried out in a transparent manner. Hence, all the perspective candidates are getting equal opportunity in on-line counselling for admission in to the university of their choice based on the score obtained in the qualifying examination.

**2.1.6 Number of students admitted in university departments in the last four academic years:**

**B.Tech \***

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | 43              | 18     | 39              | 14     | 21              | 12     | 24              | 10     |
| ST         | 56              | 36     | 66              | 26     | 25              | 19     | 33              | 17     |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 576             | 254    | 412             | 160    | 336             | 109    | 324             | 110    |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

*\* Including Lateral Entry*

**M.Tech**

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | 10              | 05     | 05              | 03     | 03              | 04     | 03              | 03     |
| ST         | 03              | 06     | 04              | 01     | -               | 02     | 01              | -      |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 147             | 85     | 81              | 49     | 70              | 32     | 35              | 34     |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

**M.Sc**

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | 01              | 01     | 02              | 01     | -               | -      | -               | -      |
| ST         | 01              | 01     | 02              | -      | -               | -      | -               | -      |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 13              | 41     | 19              | 28     | 03              | -      | -               | -      |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

**MCA\***

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | 02              | 01     | -               | 01     | 01              | 01     | 02              | 01     |
| ST         | 01              | 01     | 01              | 01     | 01              | 02     | 01              | 01     |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 19              | 07     | 16              | 07     | 21              | 06     | 17              | 06     |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

\* Including Lateral Entry

**Ph.D**

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | 03              | 02     | 02              | -      | -               | -      | -               | -      |
| ST         | 01              | -      | -               | -      | -               | -      | -               | 01     |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 33              | 14     | 33              | 04     | 16              | 02     | 23              | 05     |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

**M.Phil**

| Categories | Year 1(2014-15) |        | Year 2(2013-14) |        | Year 3(2012-13) |        | Year 4(2011-12) |        |
|------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
|            | Male            | Female | Male            | Female | Male            | Female | Male            | Female |
| SC         | -               | 01     | -               | -      | -               | -      | -               | -      |
| ST         | -               | -      | -               | -      | -               | -      | -               | -      |
| OBC        | -               | -      | -               | -      | -               | -      | -               | -      |
| GENERAL    | 05              | 02     | -               | -      | -               | -      | -               | -      |
| OTHERS     | -               | -      | -               | -      | -               | -      | -               | -      |

**2.1.7 Has the University conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight significant trends explaining the reasons for increase/decrease.**

| Programmes                 | Number of applications | Number of students admitted | Demand Ratio |
|----------------------------|------------------------|-----------------------------|--------------|
| UG                         | JEE                    | 799                         |              |
| PG                         | 1343                   | 327                         |              |
| Integrated Masters         | OJEE                   | 18                          |              |
| M.Phil                     | 20                     | 08                          |              |
| Ph.D                       | 90                     | 53                          |              |
| Integrated Ph.D            | -                      | -                           |              |
| Certificate                | -                      | -                           |              |
| Diploma                    | OJEE                   | 184                         |              |
| PG Diploma                 | -                      | -                           |              |
| Any other (please specify) | -                      | -                           |              |



**2.1.8 Were any programmes discontinued/staggered by the university in the last four years? If yes, please specify the reasons.**

University has not discontinued and programme in the last four years.

**2.2 Catering to Student Diversity**

**2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

Yes, every year the university organizes orientation programme for freshers on prior to the commencement of academic activity. Parents accompany their wards and attend the orientation programme. The orientation programme covers the following issues:

- Presentation by Dean (SW) regarding different rules and regulation of the hostel and other student related activity.
- Presentation by Dean (Academics) regarding the rules and regulation of the academic activity, promotion to higher semester, branch change etc. In addition, Dean (Academics) also briefs the various scholarship avenues available to the students.
- Presentation and motivation by Registrar of the university.
- Presentation by Head of the departments and senior professors about their department, laboratory and best practices and future scope in their respective branch.
- Finally, motivational talk by Vice chancellor of the University.

Freshers are taken around the campus including the laboratories of various departments. The duration of entire programme takes around one day.

**2.2.2 Does the university have a mechanism through which the “differential requirements of the student population” are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

Yes, we generally analyze, evaluate, identify and address the differential requirements of the student population. Admission process, ranks in entrance examination and profile of the freshers are reviewed, and the requirements are identified.

The following parameters are considered

- Academic Background
- Curricular/Extra-curricular Activities
- Family economic status
- Gender Representation
- Rural or urban area
- Medium of learning in school

The key issues are addressed by counselling and conducting Bridge Courses/remedial classes, doubt clearing classes for the students.

**2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

Student faculty interactions outside the class room are speciality of the university. The students can meet the faculty members and clear their doubts anytime. Remedial courses are conducted by each department.

**Add on courses**

All the departments organize student workshops, seminars by the experts in respective topics and project exhibition/paper presentation for the improvement of technical knowhow, awareness about the current trends in engineering and happenings in the industrial world etc. Programs for soft skill and personality development are periodically organised for the benefits of students thereby increasing the employability skills of the students.

All the bridge / remedial courses are conducted after the normal academic hours. This is being coordinated by the head of the department.

**Remedial classes conducted**

**UG**

**Department Production Engineering**

| Sl. No. | Name of the faculty | Subject                    | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|----------------------------|-----------------|------------------|-----------------|
| 1.      | Prof. D.Mishra      | Mechanics of Materials     | 4 <sup>th</sup> | 08               | 15              |
| 2.      | Dr. S.Panda         | Design of machine elements | 5 <sup>th</sup> | 06               | 12              |

**Department Electrical Engineering**

| Sl. No. | Name of the faculty | Subject                              | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|--------------------------------------|-----------------|------------------|-----------------|
| 1.      | Dr. Papia Ray       | GATE Coaching                        | 6 <sup>th</sup> | 18               | 45              |
| 2.      | Prof. S.Panda       | Electrical Machine I and II          | 7 <sup>th</sup> | 22               | 45              |
| 3.      | Prof.P.K.Hota       | Microprocessors and Microcontrollers | 6 <sup>th</sup> | 14               | 45              |

**Gate Coaching:** Electrical Machine, Network Theory, Basic Electrical Engineering, Power system

**Department Electronics and Telecommunication Engineering**

| Sl. No. | Name of the faculty | Subject                        | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|--------------------------------|-----------------|------------------|-----------------|
| 1.      | B.Das               | Network Analysis and Synthesis | 3 <sup>rd</sup> | 20               | 25              |
| 2.      | S.N.Mishra          | DSP                            | 6 <sup>th</sup> | 20               | 25              |

**Department of Mechanical Engineering**

| Sl. No. | Name of the faculty | Subject          | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|------------------|-----------------|------------------|-----------------|
| 1.      | Dr.J.R. Mohanty     | Machine Design-I | 5 <sup>th</sup> | 18               | 22              |
| 2.      | Dr. P.P.Mishra      | MST-I            | 3 <sup>rd</sup> | 15               | 25              |

**Department CSE & IT Engineering**

| Sl. No. | Name of the faculty    | Subject                        | Sem.            | Total class held | Avg. Attendance |
|---------|------------------------|--------------------------------|-----------------|------------------|-----------------|
| 1.      | Prof. Amiya Kumar Rath | Programming and Data structure | 1 <sup>st</sup> | 8                | 46              |
| 1.      | Dr. Rakesh Mohanty     | Data and File structure        | 3 <sup>rd</sup> | 07               | 31              |
| 2.      | Dr. Rakesh Mohanty     | Programming and Data structure | 2 <sup>nd</sup> | 08               | 42              |
| 3.      | D.C.Rao                | Theory computation             | 5 <sup>th</sup> | 08               | 32              |

**PG**

| Sl. No. | Name of the faculty | Subject                   | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|---------------------------|-----------------|------------------|-----------------|
| 1.      | Dr. Rakesh Mohanty  | Advanced DS and algorithm | 1 <sup>st</sup> | 16               | 10              |

**Department of Civil Engineering**

| Sl. No. | Name of the faculty | Subject                               | Sem                              | Total class held | Avg. Attendance |
|---------|---------------------|---------------------------------------|----------------------------------|------------------|-----------------|
| 1.      | Dr. A.K.Nayak       | Structural Analysis-i                 | 4 <sup>th</sup>                  | 10               | 20              |
| 2.      | Rosalini Dalai      | Environmental Science and Engineering | 1 <sup>st</sup> /2 <sup>nd</sup> | 08               | 50              |

### Department Mathematics

| Sl. No. | Name of the faculty | Subject        | Sem             | Total class held | Avg. Attendance |
|---------|---------------------|----------------|-----------------|------------------|-----------------|
| 1.      | Dr. Saroj Pradhan   | Mathematics-I  | 1st             | 25               | 55              |
| 2.      | Dr. D.K, Behera     | Mathematics-II | 2 <sup>nd</sup> | 22               | 51              |

### Department Chemistry

| Sl. No. | Name of the faculty | Subject   | Sem | Total class held | Avg. Attendance |
|---------|---------------------|-----------|-----|------------------|-----------------|
| 1.      | Dr. P.Mohapatra     | Chemistry | 1st | 22               | 51              |

### Department of Physics

| Sl. No. | Name of the faculty | Subject | Sem                              | Total class held | Avg. Attendance |
|---------|---------------------|---------|----------------------------------|------------------|-----------------|
| 1.      | Dr. A.K.Pattnaik    | Physics | 1 <sup>st</sup> /2 <sup>nd</sup> | 20               | 32              |
| 2.      | Dr. G.Nath          | Physics | 1 <sup>st</sup> /2 <sup>nd</sup> | 20               | 35              |
| 3.      | Dr. A.K.Pattnaik    | Physics | 1 <sup>st</sup> /2 <sup>nd</sup> | 20               | 42              |
| 4.      | Dr. G.Nath          | Physics | 1 <sup>st</sup> /2 <sup>nd</sup> | 20               | 43              |

### Department of Training and Placement (Organize pre-placement training programme)

| Sl. No. | Name of the faculty   | Subject                             | Sem             | Total class held | Avg. Attendance |
|---------|-----------------------|-------------------------------------|-----------------|------------------|-----------------|
| 1.      | Identity (Outsourced) | Communication (Verbal & Non verbal) | 6 <sup>th</sup> | 60               | 60              |
| 2.      | Identity (Outsourced) | Quantitative and Logical Reasoning  | 6 <sup>th</sup> | 60               | 60              |

#### 2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

Yes, we had conducted an informal study on the incremental and continuous growth in academic growth of different categories of students, based on the quiz, internal examination, participation in different events organized, outside participation and semester examination. As such quality of

students are good as the university is preferred choice for all the students of Odisha.

### **2.2.5 How does the university identify and respond to the learning needs of advanced learners?**

We identify advance learners using the following criteria:

- Marks obtained in the QUIZ, internal and semester examination
- Learning ability in classroom
- Performance in the laboratory sessions
- Participation in seminars/innovative projects.
- Informal interactions with the students by the faculty
- Questioning ability in and outside the classroom.
- Paper presented by the students in seminars and conferences.

Advance learners are encouraged to take up GATE/TOEFL/GRE/CAT/IES and other competitive examinations. GATE coaching classes are arranged in all the departments by TEQIP-II and the success rates are quite impressive.

## **2.3 Teaching-Learning Process**

### **2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?**

Academic calendar is released by the university at the beginning of every semester and is circulated among the students and faculties which is published in the university website. The circulated calendar is followed by all departments. It provides a systematic plan for a semester to students and faculties.

Subject distribution for the next semester is discussed in the departmental meeting and the subjects are allotted to faculty members. This exercise is carried out well in advance in order to enable the faculty members to prepare lesson plans/class notes/ppt presentation etc.

The lecture notes prepared by the faculty members in all departments are uploaded in the university website [www.vssut.ac.in](http://www.vssut.ac.in).

The centralized time table is prepared before the commencement of classes which contains the distribution of subjects and the corresponding faculty of all departments.

The university follows a continuous evaluation process. The students need to be evaluated on the basis of Quiz/Assignment/Sessional/ Technical presentation /Internal and External examinations in a transparent manner. All faculty needs to show the internal, external and other answer scripts to the students before the publication of the result. Student grievances related to marks are handled by the concerned faculty. At the end, students are required to put their signature in the answer scripts. Student's attendance is given due weightage which carries five marks.

**2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

Curriculum and syllabus is made available in the university website for all the courses. The faculty assigned to a particular subject prepares a lesson plan which contains the details regarding objectives to be achieved, details of contents to be covered, evaluation pattern and outcomes for the subject. Implementation of the lesson plan is monitored by the Department Heads. Faculty members also prepare lecture notes for the subjects they are handling and the same is made available to the students through the university website.

**2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

The University being unitary in nature strictly follows the academic calendar and doesn't face any challenges in completing the syllabus.

**2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

Faculty members are trained to facilitate active and interactive learning to the students. Use of different teaching methodology helps the students to understand and retain the concept for long time. Faculty members are motivating and encouraging the students to involve in the class room. The following methods help to make the learning student-centric:

- Student seminars, group discussions, and brainstorming sessions
- Students take up mini project work
- Experiential learning is achieved in laboratory classes
- Organizing soft skills and personality development classes
- Library, internet facility and language lab for value addition
- Availability of learning resources

**2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?**

Every department have student associations/society/Clubs. The students/staff/HODs take initiation to organize seminars, workshops and conferences by inviting eminent personalities of repute from academic/industrial organizations to share their experiences. The university has a strong alumni association who are placed in reputed higher positions in all over the globe in many leading industries/academic institutions/entrepreneur. They are invited to deliver their experiences to the students on a regular basis.

**2.3.6 Does the university formally encourage blended learning by using e-learning resources?**

In addition to provide face to face teaching-learning process university also provides different NPTEL and e-learning resources to the students to encourage blended learning.

The following technologies and facilities are provided:

- Computers with internet facility in all departments
- Use of LCD projectors
- Internet with Wi-fi system is available for teachers and students.
- E-Journal
- NPTEL Videos
- Lecture notes placed on website

All the above resources are optimally utilized to improve the learning experience.

**2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?**

Presently, all department uses e-learning and NPTEL resources, however a centralised and exclusive building to provide e-learning facilities is under construction which is expected to be completed by the end of the year.

**2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?**

The university has collaboration with IIT, Bombay Open Source Community for enhancing the teaching learning process. This makes the students to actively work with open source software for their day to day tasks.

**2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?**

The different Research laboratories are opened 24x7 hours to facilitate research works for the research scholars as well as the faculties. Apart from this the central internet facility centre and central computing facility centre are also opened 24x7 hours. Student hostels are provided with 1 GBPS Internet connectivity leased line from NMEICT. UG and PG students are also visiting the department in the evening hours to do their project and clear their doubts.

**2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Yes, for each department, one faculty member is assigned as a faculty advisor. He/she is

responsible for coordinating the curricular, extra-curricular and any other activities of the students. Students approach their respective faculty advisor for any guidance and solutions for any personal problems. One of the student members is selected as the class representative for each class to address the issue of their class. All students participate actively in different programmes and get benefit out of it.

Vice presidents and faculty advisors are selected from different departments for the smooth conduct of different events at university level.

**2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

A number of innovative teaching methods have been adopted for effective teaching.

- Brainstorming
- Group discussion
- Technical Quiz
- Role play
- Short seminars, games
- Industrial visits
- Case study method of teaching
- Problem solving sessions
- Field study
- Internship
- Use of NPTEL - video lectures by IIT professors.
- Use of language lab for enhancing language skills

All the above methods create an impact among the students in teaching-learning process. This method helps the students not only to understand the subject content but also it helps to retain the concept for long time. It directly reflects the improvement in terms of number of placement in campus recruitment.

**2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?**

To develop the critical thinking among the students the following activities are organized:

- Project exhibition, seminars, workshops are organized in which the students explore new ideas.
- During summer vacations, students are encouraged to take up Industrial Training and internship.
- Personality Development Program is organized.
- University Best project award is given for the final year student for outstanding project.



- Students are being selected for gold medal and silver medal for their ranks in the university.

**2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?**

- **Number of projects executed within the university**
- **Names of external institutions associated with the university for student project work**
- **Role of faculty in facilitating such projects**

Student projects are mandatory in the final year of all UG programmes and PG students do their project in their 3<sup>rd</sup> and 4th semesters. Project based learning is to be implemented from academic session 2015-16 where students are expected to do more innovative projects in 3<sup>rd</sup> and final year.

Apart from the above all faculty members give mini project/assignments to the students in that concerned subject which they are teaching. About 90% of the projects are carried out within the university and rest 10% of the projects are carried out outside. The concerned faculty supervises the project. Project Review committee consisting of faculty members along with the external examiner review the projects at the end of each semester and help the students to proceed in the right direction.

**2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Well qualified faculty members are available in the university to meet the requirements of the curriculum.

**2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?**

Computer-aided teaching-learning materials are available in the university intranet server as part of E-learning. Faculty can prepare their course materials and can submit the same to be placed as an online material. Students can download the materials for their learning. Central Library has a comprehensive collection of books and e-journals. LCD projectors are available for the benefit of students in Labs and class rooms. Internet is provided to all departments through leased line with 1GBPS bandwidth so the students and faculty can access internet. Some departments of the university are Wi-Fi enabled.

**2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?**

Yes. The university has a well-structured student feedback system to evaluate the performance of teachers. The feedback on the faculty members is obtained from the students for each subject.

## 2.4 Teacher Quality

### 2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

Each department organizes seminars/workshops/FDPs in specialized domain. Before the new curriculum is introduced the department used to organize in-house FDPs by inviting experts in those areas. Also there is a practice of sending the faculties outside to attend the training programmes. In this way, the university manages the changing requirements of the curriculum.

### 2.4.2 Furnish details of the faculty

| Highest Qualification     | Professors |        | Associate Professors |        | Assistant Professors |        | Total |
|---------------------------|------------|--------|----------------------|--------|----------------------|--------|-------|
|                           | Male       | Female | Male                 | Female | Male                 | Female |       |
| <b>Permanent Teachers</b> |            |        |                      |        |                      |        |       |
| D.Sc./D.Litt.             | 00         | 00     | 00                   | 00     | 00                   | 00     | 00    |
| Ph.D.                     | 21         | 00     | 32                   | 03     | 14                   | 07     | 77    |
| M.Phil.                   | 00         | 00     | 00                   | 00     | 00                   | 03     | 03    |
| PG                        | 00         | 00     | 03                   | 01     | 44                   | 33     | 81    |
| <b>Temporary Teachers</b> |            |        |                      |        |                      |        |       |
| Ph.D.                     | 00         | 00     | 00                   | 00     | 01                   | 02     | 03    |
| M.Phil.                   | 00         | 00     | 00                   | 00     | 05                   | 02     | 07    |
| PG                        | 00         | 00     | 00                   | 00     | 07                   | 04     | 11    |
| <b>Part-time Teachers</b> |            |        |                      |        |                      |        |       |
| Ph.D.                     | 00         | 00     | 00                   | 00     | 00                   | 00     | 00    |
| M.Phil.                   | 00         | 00     | 00                   | 00     | 00                   | 00     | 00    |
| PG                        | 00         | 00     | 00                   | 00     | 00                   | 00     | 00    |

### 2.4.2 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

University encourages diversity in its faculty recruitments. University publicizes open advertisement in national and local newspapers as well as it is published in the university website. Faculty from all over the country apply for different posts. Duly constituted selection committee selects for different posts in a transparent manner.

| <b>Department / School</b> | <b>% of Faculty from the Same University</b> | <b>% of faculty from other universities within the State</b> | <b>% of faculty from universities outside the State</b> | <b>% of faculty From Other countries</b> |
|----------------------------|--|--|---|--|
| CIVIL ENGG                 | 23.81  | 61.91  | 14.28   | 00                                       |
| MECH. ENGG.                | 38.10  | 57.15  | 4.75  | 00                                       |
| ELECT.ENGG.                | 17.40  | 60.86  | 21.74   | 00                                       |
| ETC                        | 37.01  | 55.56  | 07.43   | 00                                       |
| COMP. SC.& ENGG.           | 44.45  | 55.55  | 0.00  | 00                                       |
| PROD. ENGG.                | 25.00  | 55.00  | 25.00   | 00                                       |
| EEE                        | 33.34  | 66.66  | 0.00  | 00                                       |
| IT                         | 30.00  | 50.00  | 20.00   | 00                                       |
| MCA                        | 25.00  | 75.00  | 0.00  | 00                                       |
| MME                        | 0.00   | 67.00  | 33.00   | 00                                       |
| PHYSICS                    | 0.00   | 75.00  | 25.00   | 00                                       |
| CHEMISTRY                  | 0.00   | 81.00  | 19.00   | 00                                       |
| MATHEMATICS                | 0.00   | 100.00   | 0.00  | 00                                       |
| HUMANITIES                 | 0.00   | 100.00   | 0.00  | 00                                       |

**2.4.3 How does the university ensure that qualified faculty are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?**

The university is unitary set up by Government of Odisha. University publicizes open advertisement in national and local newspapers as well as it is published in the university website. Faculty from all over the country apply for different posts. Hence, we get lot of outstanding application for the post. In last four years 127 faculties have joined in the following department:

| Department  | Professor | Associate Professor | Assistant Professor | Total |
|-------------|-----------|---------------------|---------------------|-------|
| Civil       | 02        | 02                  | 13                  | 17    |
| Electrical  | 00        | 01                  | 13                  | 14    |
| Mechanical  | 00        | 01                  | 11                  | 12    |
| ETC         | 00        | 03                  | 15                  | 18    |
| CSE         | 01        | 04                  | 02                  | 07    |
| Prod. Engg. | 01        | 02                  | 00                  | 03    |
| EEE         | 01        | 00                  | 05                  | 06    |
| IT          | 00        | 01                  | 09                  | 10    |
| MME         | 00        | 01                  | 05                  | 06    |
| Physics     | 01        | 03                  | 03                  | 07    |
| Chemistry   | 03        | 05                  | 04                  | 12    |
| Mathematics | 01        | 02                  | 06                  | 09    |
| Humanities  | 00        | 01                  | 01                  | 02    |
| MCA         | 00        | 00                  | 04                  | 04    |

#### 2.4.4 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

The following visiting professors are invited from time to time to deliver lectures and conduct FDPs for the students and staff.

- Prof. D. Singh, IIT, Bombay
- Prof. B. Kura, University of New Orleans, USA
- Prof. Atal Chaudhuri, Jadhavpur University, Kolkata
- Prof. Sukumar Mishra, IIT, Delhi
- Prof. P. K. Dash, Former Professor, NIT, Rourkela
- Prof. L. M. Pattnaik, Ex- Vice Chancellor, DIAT, Pune
- Prof. Rajib Mall, IIT, Kharagpur
- Prof. Ajith Abraham, Director, Machine Intelligence Research Lab, USA
- Prof. Dharmendra Sharma, University of Canberra, Australia
- Prof. G. Panda, IIT, Bhubaneswar
- Prof. N. G. P. C. Mahalik, California State University, USA
- Prof. S. K. Panda, National University of Singapore, Singapore
- Prof. Sudipta Mahapatra, IIT, Kharagpur
- Prof. J. K. Mandal, Kalyani University, Kolkata

#### 2.4.5 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?

The university provides research grants to faculty members to carry out start up research work

from TEQIP/university fund. Faculty members are also encouraged to get funds from different external funding agency. Faculty members are provided with Computer and printers with round the clock leased line 1 GBPS internet connectivity to carry out research work.

University also encourages faculty members to avail the facilities of study leave for pursuing doctoral and post doctoral research activity. Faculty members are deputed under quality improvement programme (QIP) scheme to pursue doctoral/Post graduate programme on a regular basis.

The university has a policy of deputing the faculties to attend national/international conferences /seminars/symposia/FDPs. All the travelling, registration and other expenses to attend the programme and present papers in such programmes are borne by the university. The TEQIP also provides financial assistance to attend short term training programme conducted by AICTE and other universities/IITs.

**2.4.6 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

There are more than 100 awards received from different organizations by the faculty members. However, a list of some awards / recognitions for excellence in teaching at the state, national and international level are given below.

| Sl. No. | Name of the faculty                                | Name of the Award   | Year |
|---------|--|---|------|
| 1.      | Prof. C.R. Tripathy                                | Leading Scientist of the World, International Biographical Centre, Cambridge, UK            | 2010 |
| 2.      | Prof. C.R. Tripathy                                | Rashtriya Gourav Award, India-International Friendship society, New Delhi                   | 2010 |
| 3.      | Prof. P.K. Hota, Professor, Electrical Engineering | Mother Teresa Excellence Award-2010, Integrated council for Socio-Economic Progress, Kerala | 2010 |
| 4.      | Prof. S.K. Swain                                   | DAE BRNS Young Scientist Award, Govt. Of India  | 2010 |
| 5.      | Prof. P.K. Pradhan, Professor, Civil Department    | M.N.Bhuyan Memorial Gold  | 2010 |

|     |   |   |                             |
|-----|---|---|-----------------------------|
|     |   | Medal, Institution of Engineers (India)   |                             |
| 6.  | Dr. Ajit Kumar Barisal, Assistant Professor, Electrical Engineering     | Young Scientist Award-2010, Odisha Bigyan Academy   | 2010                        |
| 7.  | Dr. Ajit Kumar Barisal, Assistant Professor, Electrical Engineering     | Young Engineer Award, Institution of Engineers (India)  | 2010                        |
| 8.  | Dr. B.B.Pani, Reader, Mechanical Engineering                            | Rajiv Gandhi Sadbhabana Award-2010  | 2010                        |
| 9.  | Dr. Rakesh Mohanty, Reader, Computer Science and Engineering Department | Rashtriya Gaurav Award, India International Friendship Society 2011   | 2011                        |
| 10. | Dr. Rakesh Mohanty, Reader, Computer Science and Engineering Department | Asia Pacific Excellence Award, Citizen Integration Peace Society 2011   | 2011                        |
| 11. | Prof. C.R. Tripathy   | Gold Medal, American Biographical Institute, USA  | 2012                        |
| 12. | Dr. Rakesh Mohanty, Reader, Computer Science and Engineering Department | Best Research Paper award, Computer Science Track, International Conference on Recent Advances in Engineering and Technology, Hyderabad | 2012                        |
| 13. | Dr. Rakesh Mohanty, Reader, Computer Science and Engineering Department | Professor P.K.Kar Memorial Citation lecture Award   | 2013                        |
| 14. | Prof. S.K. Swain  | INSA Fellowship   | 2013                        |
| 15. | Dr. Punyapriya Mishra, Assistant Professor, Mechanical Engineering      | Young Scientist Award-2012, Odisha Bigyan Academy   | 5 <sup>th</sup> August 2014 |
| 16. | Dr. Ganeswar Nath, Assistant Professor, Physics                         | Dr. M.Panchally Award-2013 By Ultra   | 2014                        |

|     |   |  |      |
|-----|---|--|------|
|     |   | Sonic Society of India at Ravenshaw University, Cuttack        |      |
| 17. | Dr. Ganeswar Nath, Assistant Professor, Physics | Young Scientist Award in ISU-2015 at Nagpur University, Nagpur | 2015 |

**2.4.7 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?**

Different training programmes are attended by the faculty members.

| Academic Staff Development Programmes          | Number of faculty |
|--|-------------------|
| Refresher courses                              | 24                |
| HRD programmes                                 | 162               |
| Orientation programmes                         | 121               |
| Staff training conducted by the university     | About 220         |
| Staff training conducted by other institutions | 82                |
| Summer / Winter schools, workshops, etc.       | 63                |

**2.4.9 What percentage of the faculty have**

- A. Been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies?**
- B. Participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies?**
- C. Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies?**
- D. Teaching experience in other universities / national institutions and other institutions?**
- E. Industrial engagement?**
- F. International experience in teaching?**

| DEPARTMENT | PERCENTAGE OF FACULTY |    |    |    |    |    |
|------------|-----------------------|----|----|----|----|----|
|            | A                     | B  | C  | D  | E  | F  |
| EE&EEE     | 30                    | 55 | 82 | 42 | 22 | 0  |
| MECHANICAL | 20                    | 40 | 73 | 45 | 23 | 10 |

|              |    |     |    |    |    |    |
|--------------|----|-----|----|----|----|----|
| CIVIL & ARCH | 40 | 40  | 64 | 48 | 10 | 0  |
| PRODUCTION   | 70 | 100 | 71 | 54 | 0  | 0  |
| CS & IT      | 60 | 60  | 78 | 64 | 10 | 0  |
| ETC          | 60 | 70  | 67 | 68 | 22 | 0  |
| MME          | 10 | 80  | 63 | 65 | 0  | 0  |
| CHEMICAL     | 0  | 0   | 0  | 0  | 0  | 0  |
| MCA          | 10 | 80  | 68 | 52 | 0  | 0  |
| PHYSICS      | 60 | 70  | 72 | 75 | 10 | 0  |
| CHEMISTRY    | 70 | 70  | 74 | 75 | 12 | 10 |
| MATHEMATICS  | 30 | 60  | 58 | 65 | 0  | 0  |
| HUMANITIES   | 10 | 50  | 48 | 52 | 0  | 0  |

**2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

- Curriculum Development: Entire development of curriculum takes place once in four years. However, electives courses are introduced on need basis and as per the directives from UGC and AICTE from time to time.
- Teaching-learning methods : Every semester
- Examination reforms : Once in a year
- Content / knowledge management : Every semester
- The university organizes the Faculty Development Programme a minimum of four in a year on various subjects including teaching methodology.

In the last four years, faculty development/workshops/conferences were conducted for the benefit of faculty members to enhance the knowledge in their domain of study and to improve teaching quality and hence enrich the teaching – learning process. Faculty members are also encouraged to participate in conferences, seminars and workshops conducted by other universities/IITs/NITs. They are also encouraged to participate in Refresher Courses/Orientation programmes conducted by various reputed institutions.

**2.4.11 Does the university have a mechanism to encourage**

- **Mobility of faculty between universities for teaching?**
- **Faculty exchange programmes with national and international bodies?**

**If yes, how have these schemes helped in enriching the quality of the faculty?**

The university encourages the faculty members to participate as resource persons in FDPS/workshops/seminars/conferences organized by different universities across the country. This improves the knowledge and skill level of the faculty. However, the university is initiating MOUs with the following foreign universities:

- University of New Orleans, USA
- Florida International University



- University of Illinois, Chicago
- BTH (Blekinge Technical University), Sweden
- Asian Institute of Technology (AIT), Bangkok

Hence, faculty exchange programme will be implemented in due course of time.

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?**

The university website contains following information:

- Academic rules and regulation of the university
- Curriculum and syllabus of the programmes being offered
- Details regarding the grading pattern and promotion etc.

The academic regulations contain the details of the evaluation processes. Academic calendar also contains information regarding schedule of examinations and other curricular and extracurricular activities. Evaluation process of the university is transparent as the answer scripts are shown to the students before declaration of the results.

University ensures all stakeholders aware of the evaluation process in the following ways.

- Students handbook, academic calendar and website
- Students and parents attend orientation programme where evaluation process is discussed in detail by the Dean (Academics)
- Faculty aware of the process in department meetings
- Information is given to alumni in Alumni meet. Alumni members are part of BOS where the evaluation process is finalized.

### **2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.**

The following examination reforms are initiated by the university and they have been implemented successfully.

- Continuous evaluation system where students learn and implement
- One internal examination, Quiz/ Assignments/Technical presentation given due weightage
- Displaying the answer scripts to the students before the publication of result makes the system more transparent
- University is in transition of moving from internal and external evaluation from 30:70 to 40:60.
- Project based learning give more importance and it is implemented from academic session 2015-16. In every subject students are expected to do some project.

- Examination department is partially automated and the proposal to automate entire management system is in progress.

University is unitary hence it does not affiliate any colleges.

**2.5.3 What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the university for the publication of examination results ( e.g. website, SMS, email, etc.).**

For the internal tests the results are declared within 10 days after the last examination. The end semester examination result is declared within 4 to 5 weeks time from the completion of the last examination. Academic calendar is strictly maintained and there is no delay in publication of the results. The result is published in on line as well as in off line mode.

**2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?**

The examination committee and the controller of examination (COE) maintain confidentiality starting from setting of question paper till the evaluation of answer scripts. The university has a full proof system to conduct the end to end solution in a transparent manner. COE collects the 3 set of question papers from outside the university mostly from IITs and NITs, out of which one set is finally selected for the examination. The moderation board approves and made some changes if required in the question paper. The evaluation of answer script is done internally where the senior professor used to be the Chief examiner. Chief examiner prepares the model answers and it is distributed to all other examiners. The entire process is carried out in a confidential manner.

**2.5.5 Does the university have an integrated examination platform for the following processes?**

- **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**
- **Examination process – Examination material management, logistics, etc.**
- **Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.**

**Pre – Examination processes:**

The pre- examination process starts with gathering the required information in the well designed format by the COE.

The following activities are carried out for the smooth conduct of the examination.

1. Nature of Course offered (Theory, Laboratory)

2. Detailed syllabus for every course offered with course code and title – Contact Hours, Duration of examination for courses offered during the academic year
3. Preparation of list of external examiners for question paper setting.
4. Preparing the question papers
5. Question paper scrutiny in moderation board
6. Panel of examiners for project Examinations
7. Details about the students who have not completed the courses.
8. Generation of Attendance sheets, Hall tickets, Mark entry sheet using ERP.

**Time table:** A draft Time table for internal assessment tests and End Semester Examinations is prepared and approved by the Vice chancellor. After making the necessary changes if any, the final time table is sent to the respective departments well ahead of time to inform the students and the staff.

**Setting of question papers:** Question paper setting is done by the external examiners. After receiving the consent from external examiners, pattern of question paper, syllabus, sample question paper and other forms are sent to facilitate the process of question setting. The questions are validated /scrutinized by the moderation committee.

**Generation and Issue of Hall Tickets:** The students who have completed the formality of attendance requirements and paid the examination fee are eligible to appear for end semester examination. Controller of Examination office generates the hall tickets of eligible candidates and issued individually before the commencement of the examination.

**Preparatory arrangements:**

The duty schedule of invigilators and attendance sheets for students are prepared in advance by the office of Controller of Examinations. Seating arrangements are made for each student by the examination section.

**Examination processes:**

On the day of examination, the question paper packets are disbursed to the Invigilators from the Controller of Examination who is in-charge of the control room and the conduct of examination. Dean(Academics) and Vice chancellor visit the examination halls and ensure the smooth conduct of the examination.

**Post Examination Processes:**

*Valuation of Answer Scripts:* The scoring of answer scripts of the written examination is done in a fair & uniform manner by the examiners and the answer scripts is to be shown to the students prior to the declaration of the result.

*Publication of Results:*

Controller of Examinations offices carries out the task of processing the internal and external examination marks as per the regulation. The results are submitted to conducting board for final approval. After the approval, the results are published and uploaded in the university website.

**2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?**

Ph.D evaluation process is as per the academic regulations. Publication of minimum two papers

in high impact referred journal is mandatory. University is having a system of having two examiners, out of which one is foreign examiner.

**2.5.7 Has the university created any provision for including the name of the college in the degree certificate?**

University is unitary and hence it does not affiliate any colleges. However, the name of the university is reflected in all the degree certificates.

**2.5.8 What is the mechanism for redressal of grievances with reference to examinations?**

Examination system operates in a very transparent manner in the university. After evaluation, the answer scripts are shown to the students by the concerned faculty prior to the declaration of the result. Hence, the grievances related to marks secured in the answer script are handled at the faculty level. This gives a complete decentralized system. The malpractices cases are handled by a committee constituted by the examination section.

**2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

A full time controller of examination (COE) is appointed to carry out the examination related activities. Further, one assistant controller of examination is also been assigned to help the COE in day-to-day examination related activities. Efforts have been made to automate the entire examination system. The significant efforts which have improved the process and functioning of the examination division/section are as follows:

- Timely conduct of internal and end semester examination for all the programmes
- Stream line the process of preparation of question paper by external members
- Valuation of answer scripts
- Showing answer scripts to the students thereby handling the grievances at faculty level
- Timely publication of result

**2.6 Student Performance and Learning Outcomes**

**2.6.1 Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

The University aims to advance knowledge and learning to progress the professions, industry and communities of the world. In learning and teaching the university will achieve the purpose by being internationally renowned for practice. The university believe in integrated learning that develops highly valued engineering graduates, and enabling a university experience that is intellectually vibrant and socially engaging. University will have a reputation for graduates who are highly employable and effective in the global workplace, for leadership in internationalising student experiences and for integrating research and teaching.

To guide our performance and our interactions with each other, with students, our partners and the wider community, we have articulated our principles.

*Our principles in action are:*

- Discover and share new knowledge and new ways to lead through our teaching, research, intellectual debate and use of technology.
- Engage and collaborate with each other, our students, alumni, partners, professions and communities, locally and internationally.
- Empower each other and our students to grow, contribute, challenge and make a difference.
- Deliver on our obligations to each other, our students, our partners and communities while maintaining high standards and ethical behaviour.
- Sustain our local and global environment, organisational health and our ability to create a positive, viable future.

VSSUT, Burla, aims to produce engineering graduates with an appreciation of the practical, social and ethical dimensions of their chosen professions and with the skills and knowledge to operate effectively in culturally diverse workplaces within changing international and social contexts. Our *curriculum* enhances teaching and learning through a flexible and dynamic approach which is expressed through stimulating teaching, the effective use of technology and an information rich environment.

In addition to the more traditional curriculum practices, our students experience a range of opportunities to engage in learning in the community, workplace and professional organisations. Our university demonstrates its commitment to improving quality teaching and learning through recognition and reward for good teaching practice, academic staff development initiatives and other improvement initiatives informed by regular student feedback surveys and an annual review of course performance.

Our Model of *Learning* is a practice oriented, internationally focused and research integrated approach that develops highly valued graduates who can operate in global contexts for the 21<sup>st</sup> century. We provide a learning environment and deliver a curriculum for students to facilitate the development of a depth of disciplinary expertise and a breadth of knowledge and experience. In addition to their own subject expertise and discipline-specific capability we seek to ensure a learning environment in which our students will be enabled to acquire and display attributes that have been persistently linked to employability, and are seen by employers as vital for graduates embarking on careers in any field.

By ensuring a strong, well-designed and dynamically-delivered curricular base and by providing a distinctive pedagogical climate, we aim to ensure that our graduates are knowledgeable, proactive, creative, responsible, collaborative, and articulate.

Power point presentations, discussions in the classroom, classroom seminar, preparing assignments, projects, field visits, surveys and presentation by the students have been used as

innovative practices. Faculty members are encouraged to use these practices depending on the requirement of their subject. It was observed that due to these practices students are facilitated in understanding their course content showed more interest in their studies. Informally students give their feedback regarding the consequences of these practices. The students make efforts to use the innovative methods in their presentations. Teacher submits the self appraisal reports and mentions the use of innovative teaching methods. The self appraisal report is acknowledged by the Hon'ble Vice Chancellor.

A key aspect of the university is to strengthen graduate attributes for a global work place and systematically embedding them in the curriculum. In recent years there has been an observable shift in the graduate attribute landscape.

Graduate attribute frameworks have been established in our university to ensure that our graduates have been introduced to, and demonstrate, a range of professional, personal and intellectual attributes. Each of the graduate attributes is developed through the studies and can be further developed through extracurricular activities. The graduate attribute involves core skills, qualities and abilities and each attribute is conceived in three dimensions: Academic instruction, the resulting personal understanding and its subsequent transferable articulation. These dimensions are the manifestations of the same attribute in different social situations.

We ensure our students have the opportunity to experience all three dimensions of each attribute during the course of their time at VSSUT.

The framework also provides guidance to teachers and students on the level of student achievement throughout a course. Ideally, every assessment item, whether a practical, project or performance assessment is linked through a set of performance criteria that contribute to the achievement of one or more graduate attributes. In this way, student's progress towards achieving the graduate attributes can be tracked as they progress through the subjects in a course and successfully complete the related assessment.

At the completion of their course every student of VSSUT Burla :-

- Is equipped for ongoing learning in the pursuit of personal development and excellence in professional practice.
- Will be able to operate effectively with the body of knowledge that underpins of professional practice.
- Is committed to the actions and responsibilities required of a professional and a citizen.

Besides the conceptual knowledge in the subject, the university articulated its graduate attributes by facilitating their participation and involvement in various activities: students club and chapter activities, industrial visits of the students and societal activities of the student through NSS.

Our aims to ensure that all Bachelor degree programs are structured in a way that enables students to study content that focuses specifically on developing some of the characteristics of the expected graduate attributes. Academic programs and university life at VSSUT are designed to produce engineering graduates who have skills and knowledge that position them to succeed in their chosen careers and contribute to the community through their employment.

**2.6.2 Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?**

Each programme of the university has clearly stated learning outcomes. These outcomes are derived from the graduate attributes of undergraduate engineering. Each department has their own vision and mission statement which is in aligned with the vision and mission of the university.

Vision and Mission of the department and university are prominently put up at strategic places. These are disseminated to all stakeholders by publishing them in notice boards, display boards, websites, academic calendar etc

**2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

The achievements of learning outcomes are monitored through informal meetings with the students, formal departmental meeting, HODs interaction with the students and formal feedback obtained. Every faculty uses innovative teaching methodology in the class room. Interactive learning happens in the class room. Rigorous practical and project class helps to achieve the intended learning outcomes. Internal and external question paper is focussed mostly from high order thinking of Bloom's taxonomy thereby the creativity of the student will improve.

**2.6.4 How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?**

University collect and analyze the data on student learning outcomes in the following manner:

Informal meetings with the students, formal departmental meeting, HODs interaction with the students and formal feedback obtained.

- Alumni meeting and feedback from alumni
- Higher studies of students
- GATE coaching classes conducted
- Special attention is given to the students who are lacking behind in some subjects.
- Tutorials and extra laboratory classes arranged. Continuous Assessment mechanism and internal tests are conducted. Based on the participation in the class and the marks scored, the student level is judged by the staff.
- Counselling and mentoring is done by the faculty
- Small group teaching/doubt clearing is also carried out in faculty chambers by faculty members.

**2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?**

The following mechanism is adopted by the university in enhancing the student learning and evaluation so that he/she can face the future challenges.

- Project based learning, independent and creative thinking
- Students are engaged to conduct different programmes which will enhance their leadership skills
- Self learning in seminar
- Innovative teaching-learning practices
- Emphasis on high order thinking



## **CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION**

### **3.1 Promotion of Research**

#### **3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Yes. The university have the Research Committee to monitor and address issues related to research known as Project Evaluation Committee (PEC) for each Research Project. The committee is headed by Prof. Dr.P.K.Hota, Dean, Sponsored Research and Industrial Consultancy (SRIC).

Composition of the Project Evaluation Committee is as follows:

1. Dean(SRIC) - Chairman
2. Dean(Academics) - Member
3. Concerned HOD - Member
4. Senior Professor of the Department - Member
5. Principal Investigator – Member Convenor

Few recommendations and their impact:

- The encouragement and motivation from research committee has resulted in getting funds from UGC/DST/AICTE and other funding agencies for projects and Industry based consultancy projects.
- Research publication by the faculty members in National and International journals and proceedings in conferences has also increased considerably.
- Faculties are encouraged to attend FDPs related to their research work.

The research committee also encourages the faculty members to send proposals to various government agencies like AICTE, DST, UGC etc., for organizing workshops, seminars, conferences, etc.

#### **3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?**

Not applicable. It is a non-affiliating Unitary University.

#### **3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?**

Some of the proactive mechanisms implemented for smooth implementation of research projects are as follows:

- Proper planning
- Creation of required facilities and allocation of space

- **Advancing funds for sanctioned projects**

Advancing of funds are not provided to faculty, however once the project is approved by the funding agency, funds have been released to carry out the research.

- **Providing seed money**

Seed money is not provided to faculty members, however funds have been provided for purchase of books every year. In addition, Computer and printer with internet connection is provided to all the faculty member.

- **Simplification of procedures related to sanctions / purchases to be made by the investigators**

Funds are provided as per research / project guideline of the funding agency.

- **Autonomy to the principal investigator/coordinator for utilizing overhead charges**

Yes.

- **Timely release of grants**

Project works are being started immediately after the receipt of the funds.

- **Timely auditing**

Timely auditing is done and the reports are being submitted to the funding agency.

- **Submission of utilization certificate to the funding authorities**

Utilisation certificate is being submitted to the funding agency immediately after the completion of the project.

### **3.1.4 How is interdisciplinary research promoted?**

- **Between/among different departments /schools of the university and**

Interdisciplinary researches are being promoted among different departments of the University.

Faculty members from different fields are considered to form a team and are entrusted the task of implementing it.

University promote interdisciplinary research by the following ways:

- Encouraging faculty to work as a team in research and consultancy projects
- Encouraging faculties to attend the national / Inter-national conferences organized by various departments of the university.

- **Collaboration with national/international institutes / industries.**

The following MoUs are signed with national/international institutes/industries etc. through TEQIP Cell of the University.

| (a) | National Collaboration  | Date       | Purpose  |
|-----|---|------------|--|
| 1   | Infosys Ltd.,<br>Bangalore                                    | 21.06.2014 | This MOU is for collaboration between both parties, for mutual benefit, to enhance the quality of the educational experience of students.  |
| 2   | NI System (India) Pvt. Ltd., Hobli, Bangalore                 | 26.06.2014 | Encouraging engineers from industry to visit Industry Institution Interaction Cell (IIIC) to deliver lectures;<br>Participating of experts from industry in IIIC curriculum development;<br>Visits of Faculty Member to industry;<br>Industrial Testing;   |
| 3   | SKF India Ltd., Chinchwad, Pune                               | 14.07.2014 | In view of the challenging environment and the need to provide students with better learning opportunities it is essential to form more industry-academic partnerships. Such an initiative provides students with excellent learning opportunities and helps in disseminating knowledge.                                       |
| 4   | Tech Mahindra, Pune   | 13.08.2014 | Tech Mahindra and VSSUT are contemplating to enter into a long term mutually beneficially relationship in line with vision of Industry academic collaboration in areas of academic and technical exchange, to develop academic and scientific relationships, and in support of collaborative research and training activities. |
| (b) | International Collaboration                                   |            |  |
| 1   | Institute National Research Scientific (INRS), Quebec, Canada | 12.09.2014 | Formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair MATECSS  |

**Industries related Curriculum development.**

|   |  |
|---|--|
| a | Infosys proposed 3 subject curriculum to introduced in the university course |
| b | NI proposed one subject curriculum to introduced in the university course    |

The university is initiating MOUs with the following foreign universities:

- University of New Orleans, USA
- Florida International University

- University of Illinois, Chicago
- BTH (Blekinge Technical University), Sweden
- Asian Institute of Technology (AIT), Bangkok
- Clemson University, South Carolina
- University of Southern California, Parkway, Los Angeles
- Texas A&M University, Texas
- University of Utah

The formal MOUs are under process with the following industries:

- Hindalco, Hirakud
- MCL, Sambalpur
- Vedanta (Sesa Sterlite, Jharsuguda)
- Bhusan Steel Ltd, Sambalpur

**3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.**

The following Seminar/Conference/Workshop were organized in the academic year 2011-12, 2012-13, 2013-14.

| Sl No | Name of the conference/ Course/Seminar                              | Date                        | Name of the Deptt/ Coordinator                        | Funding Agency                    |
|-------|---|-----------------------------|---|-----------------------------------|
| 1     | Earthquake Resistant Design and Construction Practices              | 4-13 Jan-2011               | Prof. PC Swain<br>Deptt. Of Civil Engg.               | Govt. of Odisha                   |
| 2     | Spirituality in Science and Technology                              | 10 <sup>th</sup> April-2011 | Deptt of Humanities                                   | Bhakti Vedant Institute           |
| 3     | Industrial Safety-Key to Productivity                               | 8 <sup>th</sup> Dec-2011    | Prof. PC Swain<br>Deptt. Of Civil Engg.               | Orissa State Productivity Council |
| 4     | National Conference on Recent Advances in Science & Technology      | 27-28 Feb-2012              | Dr. AK Patnaik<br>Deptt. Of Physics                   | DRDO                              |
| 5     | National Conference on Recent Advances on Mechanics & Materials     | 25-26 Feb-2012              | Prof. AN Nayak & Dr AK Nayak<br>Deptt. Of Civil Engg. | AICTE                             |
| 6     | Resonance-2012  | 17 <sup>th</sup> March 2012 | Prof. S Panda<br>Deptt. Of E Engg.                    | VSSUT                             |
| 7     | Srujan-2012   | April-2012                  | Prof. CR Tripathy<br>Deptt. Of CSE                    | VSSUT                             |
| 8     | GAMUT-2012  | April-2012                  | Prof. D Mishra<br>Deptt.of MSE                        | VSSUT                             |
| 9     | National Conference on Design of Steel Structure as per IS:800-2007 | 18-31 June 2012             | Prof AN Nayak & Dr SK Patra<br>Deptt of Civil Engg.   | AICTE                             |

|    |  |  |  |  |
|----|--|--|--|--|
| 10 | Emerging New Materials in Engineering Applications                               | 19-20 <sup>th</sup> Jan-2013                     | Dr(Mrs)P Mishra & Dr. P Nanda<br>Mech. Engg.                                 | TEQIP,ISTE & Alumni Association<br>VSSUT |
| 11 | National Conference on Recent Advances in Modern Power System                    | 30 <sup>th</sup> Dec—2012                        | Dr. A.K. Barisal<br>Deptt. Of E Engg.  | ISTE & Alumni Association<br>VSSUT       |
| 12 | National Conference on Recent Trends in Advanced Computing                       | 29 <sup>th</sup> April-11 <sup>th</sup> May-2013 | Dr. H.S. Behera<br>Deptt. of CSE   | AICTE<br>New Delhi                       |
| 13 | Creation Management of Intellectual Property Rights                              | 1 <sup>st</sup> Feb-2013                         | Prof. B. Das<br>Deptt. of ETC  | IPR Cell<br>VSSUT                        |
|    | Tectronix-2013   | 2-3 Feb-2013                                     | Prof. S. Agrawal<br>Deptt. Of ETC  | ETE Society<br>VSSUT                     |
| 14 | Resonance-2013   | 6 <sup>th</sup> April-2013                       | Prof S. Panda<br>Deptt of E Engg.  | EE Society<br>VSSUT                      |
| 16 | Awareness Workshop on NPTEL  | 27 <sup>th</sup> Sept.-3013                      | Prof. B. Das<br>Deptt. of ETC  | NPTEL/ISTE/<br>TEQIP-II                  |
| 17 | Recent advanced in Material Science-13   | 26-27 Oct-2013                                   | Prof. S.K. Swain,Dr. S. Das,Dr. J.R. Mohantry, Deptt. of Chemistry           | TEQIP-II/MCL/CSIR                        |
| 18 | National Conference on Recent Advances and Innovations in Electrical Engineering | 6-7 <sup>th</sup> April-2014                     | Prof. P.K. Hota/Sri B.D. Rout, Deptt. of Elect.Engineering                   | TEQIP-II                                 |
| 19 | National Conference on Recent advanced in Material Science-14                    | 23-24 Aug-2014                                   | Prof. S.K. Swain,Dr. P.Mohapatra/Dr. T. Biswal Mohantry, Deptt. of Chemistry | TEQIP-II/MCL/SBI                         |
| 20 | International Conference on Computational Intelligence in Data Mining            | 20 <sup>th</sup> -21 <sup>st</sup> December-2014 | Dr. H.S. Behera<br>Deptt. of CSE & IT  | TEQIP-II                                 |

**3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?**

Professors are invited to the university to deliver invited talks in seminars, workshops, FDPs and conference. Recently, following professors are participated in the international conference on Computational Intelligence in Data Mining ICCIDM' 2014 conducted by Computer science and Engineering and IT department as keynote speaker.

- Prof. Ajith Abraham, Machine Intelligence Research (MIR) Labs, Washington, USAIT4Innovations-Centre of excellence, VSB-Technical University of Ostrava, Czech Republic
- Prof. D. Sharma, Distinguished Professor, University of Canberra, Australia

**3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

There is no exclusive head for research. However, the department spends from the budget allocated to them.

**3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.**

Not applicable. University is unitary. It does not affiliate any college.

**3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associate ships? If yes, provide details like number of students registered, funding by the university and other sources.**

Yes. The candidates admitted for the regular Ph.D. degree programme under QIP will receive a sum of Rs.9000/- per month as living expenditure allowance and a contingency grant of Rs.10,000/- per annum for three years subject to the receipt of the grants from the AICTE.

Further, scholarship of Rs.15,000/-per month is offered for three years to 34 Ph.D. research scholar through the University.

**3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?**

No faculty have utilised.

**3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

The following table shows the list of national/international conferences organised by the university along with the eminent speakers.

| Sl. No. | National and International conferences                                | Date   | Organizers   |
|---------|---|--|--|
| 1       | International Conference on Computational Intelligence in Data Mining | 20 <sup>th</sup> -21 <sup>st</sup> December-2014 | Convenor : Dr. H.S. Behera<br>Deptt. of CSE & IT<br>1)Prof.P.K. Dash<br>Director, Multidisciplinary Research Unit S'O' A University, Bhubaneswar<br>2)Prof. A. Abraham<br>Director Machine Intelligence, Lab, Washington<br>3)Prof. D. Sharma<br>Univ. distinguished professor, University of Kanberra, Australia<br>4)Prof. G. Panda<br>Former Deputy director & Professor IIT, Bhubaneswar |
| 2       | National Conference on Recent Advances and Innovations in             | 6-7 <sup>th</sup> April-2014                     | Prof. P.K. Hota/Sri B.D. Rout, Deptt. of Elect.Engineering   |

|   |   |  |   |
|---|---|--|---|
|   | Electrical Engineering  |  |   |
| 3 | National Conference on Recent advanced in Material Science-14 | 23-24 Aug-2014                                   | Prof. S.K. Swain, Dr. P. Mohapatra/Dr. T. Biswal Mohantray, Deptt. of Chemistry |
| 4 | National Conference on Recent Trends in Advanced Computing    | 29 <sup>th</sup> April-11 <sup>th</sup> May-2013 | Dr. H.S. Behera<br>Deptt. of CSE  |
| 5 | Recent advanced in Material Science-13                        | 26-27 Oct-2013                                   | Prof. S.K. Swain, Dr. S. Das, Dr. J.R. Mohantray, Deptt. of Chemistry           |
| 6 | National Conference on Recent Advances in Modern Power System | 30 <sup>th</sup> Dec—2012                        | Dr. A.K. Barisal<br>Deptt. Of E Engg.   |

### 3.2 Resource Mobilization for Research

#### 3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

Scholarship of Rs.18,000/- for one Ph.D. scholar and Rs.8,000/- per month to the selected M.Tech students are granted by the TEQIP-II grant.

#### 3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Efforts are being taken ON THIS REGARD.

#### 3.2.3 Provide the following details of ongoing research projects of faculty:

List of ongoing research project : Funds received by the University externally

| Name of Deptt/<br>Name of P.I.                  | Name of Project   | Nature of Project            | Sponsored by           | Cost (Rs. in lakhs) | Status   |
|---|---|------------------------------|------------------------|---------------------|----------|
| <u>Elect. Engg.</u><br>PI: Dr. B.B. Pati        | Transient Stability Analysis and Control of Power Systems with Excitation Control   | Research Project Scheme(RPS) | AICTE-RPS<br>New Delhi | 7.50                | On going |
| <u>Mech. Engg.</u><br>PI Dr. S.K. Sarangi       | Development of Ultrano Coating bt HFCVD method on cemented carbide inserts  | Research Project Scheme(RPS) | AICTE-RPS<br>New Delhi | 14.10               | On going |
| <u>Dept. of Physics</u><br>PI: Dr. A .K Patnaik | Development of high temperature piezoelectric ceramic based on (1-x)Bi(M', M'') O <sub>3-x</sub> Pb TiO <sub>3</sub> System | DST                          | DST<br>New Delhi       | 11.40               | On going |
| <u>Civil Engg</u>                               | Modernisation of  | MODROB                       | AICTE                  | 18.04               | On going |

|   |   |                              |                |       |          |
|---|---|------------------------------|----------------|-------|----------|
| PI-HOD, Civil & Dr. C. R. Mohanty         | Environmental Engineering Laboratory  |                              | New Delhi      |       |          |
| <u>Mech. Engg.</u><br>PI Dr. S.K. Sarangi | Development of NCD&UNCD Cemented Carbide Inserts                                  | Research Project Scheme(RPS) | CSIR New Delhi | 15.14 | On going |
| PI:HOD Mech                               | Financial Assistant to Mechanical Engg. Deptt.                                    | DST (FIST) Programme         | DST New Delhi  | 9.57  | On going |
| <u>Civil Engg</u><br>PI Dr. C. R. Mohanty | Fled trials of low cost fluoride filter   | DST (WTI) Programme          | DST New Delhi  | 12.78 | On going |
| <u>Mech. Engg</u><br>PI Dr. J.R. Mohanty  | Development of Ultrasonic Absorbent Composite Material Using Date Palm Leaf Fibre | RPS DRDO                     | DRDO New Delhi | 7.35  | On going |

**3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

No.

**3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

All the departments are recognised for their research activities by national as well as international agencies.

**3.2.6 List details of**

**a. research projects completed and grants received during the last four years (funded by National/International agencies).**

**B. Research Project completed :**

| Name of Deptt/Name of P. I.            | Name of Project                               | Nature of Project | Sponsored by    | Amount Sanctioned In lac | Date from | Date To  | Project Statuus |
|--|---|-------------------|-----------------|--------------------------|-----------|----------|-----------------|
| ETC/<br>PI-HOD, EL & TCE               | Modernisation of Communication Lab            | MODROB            | AICTE New Delhi | 10.0                     | 20.06.08  | 31.12.12 | Completed       |
| <u>Mech. Engg.</u><br>PI-Dr. B.B. Pani | Manufacture of wear resistant components from | TAPTEC            | AICTE New Delhi | 10.0                     | 23.05.99  | 04.07.13 | Completed       |



|                                |  |        |                 |      |          |          |           |
|--------------------------------|--|--------|-----------------|------|----------|----------|-----------|
|                                | particulate reinforced composites            |        |                 |      |          |          |           |
| PI-Dr. SK Sarangi              | Characterisation Of...coated carbide inserts | RPS    | AICTE New Delhi | 5.50 | 19.04.08 | 17.07.13 | Completed |
| PI- HOD Mech                   | Modernisation of Material Research Lab       | MODROB | AICTE New Delhi | 7.56 | 15.02.10 | -        | Completed |
| PI-Dr. SK Sarangi              | Design,Development..non ferrous materials    | SERC   | DST New Delhi   | 15.0 | 30.11.07 | -        | Completed |
| Mfg.Sc.& Engg., PI-HOD         | Modernisation of Metal Machining Lab         | MODROB | AICTE New Delhi | 15.0 | 25.09.08 | 01.01.13 | Completed |
| Mfg.Sc.& Engg., PI-Dr.D.Mishra | Agent-based... Assembly System               | RPS    | AICTE New Delhi | 11.0 | 10.04.08 | 02.01.13 | Completed |
| Mfg.Sc.& Engg., PI-HOD Mech.   | Modernisation of Metal Machining Lab.        | MODROB | AICTE New Delhi | 11.0 | 30.10.07 | 24.07.13 | Completed |

### Grant received

| Name of Deptt/<br>Name of P.I.                       | Name of Project  | Nature of Project             | Sponsored by        | Cost (Rs. in lakhs) | Financial Year |
|--|--|-------------------------------|---------------------|---------------------|----------------|
| <u>Elect.Engg.</u><br>PI:Dr.B.B. Pati                | Transient Stability Analysis and Control of Power Systems with Excitation Control  | Research Project Scheme (RPS) | AICTE-RPS New Delhi | 7.50                | 2012-13        |
| <u>Mech. Engg.</u><br>PI-Dr. S.K. Sarangi            | Development of Ultrano Coating bt HFCVD method on cemented carbide inserts   | Research Project Scheme (RPS) | AICTE-RPS New Delhi | 14.10               | 2012-13        |
| <u>Dept.of Physics</u><br>PI:Dr.A .K Patnaik         | Development of high temperature piezoelectric ceramic based on(1-x)Bi(M', M'') O <sub>3-x</sub> Pb TiO <sub>3</sub> System | DST                           | DST New Delhi       | 11.40               | 2013-14        |
| <u>Civil Engg</u><br>PI-HOD,Civil & Dr. C. R.Mohanty | Modernisation of Environmental Engineering Laboratory  | MODROB                        | AICTE New Delhi     | 18.04               | 2013-14        |
| <u>Mech. Engg.</u><br>PI-Dr.                         | Development of NCD&UNCD  | Research Project              | CSIR New Delhi      | 15.14               | 2013-14        |

|                                      |   |                      |                |       |                                       |
|--------------------------------------|---|----------------------|----------------|-------|---------------------------------------|
| S.K.Saranghi                         | Cemented Carbide Inserts  | Scheme (RPS)         |                |       |                                       |
| PI:HOD Mech                          | Financial Assistant to Mechanical Engg. Deptt.                                    | DST (FIST) Programme | DST New Delhi  | 9.57  | 2014-15<br>2 <sup>nd</sup> instalment |
| Civil Engg<br>PI-Dr. C.<br>R.Mohanty | Fled trials of low cost fluoride filter   | DST (WTI) Programme  | DST New Delhi  | 12.78 | 2014-15                               |
| Mech. Engg<br>PI-Dr. J.R.<br>Mohanty | Development of Ultrasonic Absorbent Composite Material Using Date Palm Leaf Fibre | RPS DRDO             | DRDO New Delhi | 6.92  | 2013-14<br>1 <sup>st</sup> instalment |

### b. Inter-institutional collaborative projects and grants received

i) **All India collaboration :** The University has collaborative projects with industries and institutions and also received grants which is mentioned in section 3.2.6

#### ii) **International :**

The university is initiating international collaboration with the following foreign universities:

- University of New Orleans, USA
- Florida International University
- University of Illinois, Chicago
- BTH (Blaking Technical University), Sweden
- Asian Institute of Technology (AIT), Bangkok

## 3.3 Research Facilities

### 3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

Sponsored Research & Industrial Consultancy (SRIC), a special R&D Cell, and Continuing Education Programme (CEP), a special academic development cell, was set up in 2011 as an interface between funding agencies and the University to run sponsored research projects, industrial consultancy assignments, seminars/ conferences, staff development programmes, remedial coaching classes and short term courses.

QIP centre at this University deals with Ph.D. programmes. Faculty members from AICTE recognized degree level institutions from all over the country are pursuing Ph.D. degree programme under this scheme.

### 3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Efforts are being taken to provide facilities.

**3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?**

The University have created a Central **Research Facility (CRF)** and the facilities will be made available to research scholar. A budget provision of around Rs.1.2 crores has been made to procure a **Scanning Electron Machine (SEM) of Hitachi** make from the TEQIP-II grants.

**3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?**

Yes. The University have the facilities like Central Internet Facility, Central Library, e-learning centre and departmental laboratories etc. for research works, post-doctoral fellows, research associates, summer fellows of various academies.

**3.3.5 Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?**

Efforts are being taken on this regard.

**3.3.6 Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Nil

**3.4 Research Publications and Awards**

**3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.**

The universities publishes news letter every year. The detailed are as shown below:

**JOURNALS / NEWS LETTER PUBLISHED BY THE UNIVERSITY**

**(2014-15, 2013-14, 2012-13, 2011-12, 2010-11)**

| Year    | Name of Journal/Newsletter | Editorial Board | Publication Policy | Listed in Database |
|---------|----------------------------|-----------------|--------------------|--------------------|
| 2014-15 | VSSUT Newsletter           |                 | Half-yearly        |                    |
| 2013-14 | VSSUT Newsletter           |                 | Half-yearly        |                    |
| 2012-13 | VSSUT Newsletter           |                 | Half-yearly        |                    |

|         |                  |  |             |  |
|---------|------------------|--|-------------|--|
| 2011-12 | VSSUT Newsletter |  | Half-yearly |  |
| 2010-11 | VSSUT Newsletter |  | Half-yearly |  |

### 3.4.2 Give details of publications by the faculty:

- Number of papers published in peer reviewed journals (national / international)
- Monographs
- Chapters in Books
- Books edited
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average \* h-index

### **MAJOR RESEARCH ACHIEVEMENTS OF THE UNIVERSITY (NATIONAL / INTERNATIONAL CONFERENCES)** (2014-15, 2013-14, 2012-13, 2011-12, 2010-11)

| S.No | Name of The Department  | Number of National/International conference |         |         |         |         |
|------|---|---|---------|---------|---------|---------|
|      |   | 2014-15                                     | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| 1    | Civil Engineering   | 08  | 09      | 12      | 13      | 08      |
| 2    | Mechanical Engineering  | 08  | 10      | 15      | 12      | 07      |
| 3    | Electrical Engineering and Electrical & Electronics Engineering | 38  | 58      | 33      | 24      | 13      |
| 4    | Electronics & Telecommunication Engineering                     | 12  | 13      | 22      | 23      | 25      |
| 5    | Computer Sc. & Engineering and Information Technology           | 52  | 35      | 38      | 56      | 51      |
| 6    | Production Engineering  | 2   | 5       | 6       | 8       | 9       |
| 7    | Metallurgy & Materials Engineering                              | 12  | 5       | 7       | 3       | 3       |
| 10   | Master of Computer Application                                  | 12  | 03      | 01      | 00      | 00      |
| 11   | Physics   | 00  | 05      | 01      | 04      | 00      |
| 12   | Chemistry   | 20  | 18      | 15      | 16      | 17      |

|    |              |    |    |    |    |    |
|----|--------------|----|----|----|----|----|
| 13 | Mathematics  | 06 | 03 | 02 | 02 | 02 |
| 14 | Humanity     | 5  | 4  | 00 | 3  | 00 |
| 15 | Architecture | 02 | 01 | 04 | 00 | 01 |

**DETAILS OF PAPERS PUBLISHED IN JOURNALS (NATIONAL / INTERNATIONAL)  
For last five years (2010 – 2015)**

| Name of The Department | No of papers published in peer reviewed journal | Monographs | Chapters in books | Books Edited | Books with ISBN numbers with details of publishers | Number listed in international Database | Citation index range/ average | SNIP  | SJR   | Impact factor/ Avg.          | h-index |
|------------------------|---|------------|-------------------|--------------|--|---|-------------------------------|-------|-------|------------------------------|---------|
| CE                     | 128   | NIL        | 15                | 03           | NIL  | NIL                                     | 1-150                         | NIL   | NIL   | 0.1-4.5                      | NIL     |
| ME                     | 37  | 00         | 00                | 00           | 00   |   | range 05 - 110                |       |       | 1.6                          | 5.0     |
| EE & EEE               | 130   | Nil        | 03                | Nil          | 03   | 130                                     | 102                           |       |       | 1.00-4.00<br>Avg: 2.20       | 7       |
| ETC                    |   |            |                   |              |  |   |                               |       |       |                              |         |
| CSE & IT               | 180   | Nil        | 12                | 15           | 15   | 180                                     | 132                           |       |       | 1.5                          | 6       |
| PE                     | 34  | Nil        | 3                 | 2            |  | 34                                      | 600                           |       |       | Range:1.0-3.0<br>Avg:2.00    | 6       |
| MME                    | 08  | Nil        | Nil               | Nil          | Nil  | 08                                      | 148                           |       |       | Range:1.0-3.0<br>Avg:1.2     | 4       |
| MCA                    | 08  | ---        | 12                | ---          | ---  | 14                                      | 20                            | 2.354 | 0.773 | 0.5885                       | 6       |
| Physics                | 159   | Nil        | 02                | Nil          | 05*  |   |                               |       |       | Range:1.0-6.0<br>Avg:2.75    |         |
| Chemistry              | 107   | 00         | 08                | 00           | 07   | 107                                     | 1500                          |       |       | 1.84                         | 5       |
| Mathematics            | 96  | 00         | 00                | 00           | 02   | 90                                      | 55                            |       |       | Range:0.04-3.402,<br>Avg:0.7 | 2       |
| Humanity               | 09  |            | 01                | 01           | 01   |   |                               |       |       |                              |         |
| Architecture           | 10  |            | 02                | 01           |  | 10                                      | 352                           |       |       | Avg:2                        | 6       |

**3.4.3 Give details of**

- Faculty serving on the editorial boards of national and international journals
- Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies

**DETAILS ABOUT FACULTIES SERVING ON EDITORIAL BOARDS**

| S.No | Name of The Faculty | Editorial Board  |
|------|---------------------|--|
| 1    | Prof. S.K.Swain     | International Journal of Polymer science, Guest editor |

|    |                        |   |
|----|------------------------|---|
| 2  | Prof. D.Mishra         | Centurion Journal of multidisciplinary research   |
| 3  | Prof. R.Panda          | Interscience journals   |
| 4  | Prof. Amiya Kumar Rath | Member of Editorial And Advisory Board and Member of Review Board Pezzottaie Journals, Jammu & Kashmir  |
| 5  | Dr. Rakesh Mohanty     | Elsevier Information science  |
| 6  | Dr. H.S.Behera         | <ul style="list-style-type: none"> <li>• Springer smart innovation system and technologies</li> <li>• International Journal of data science</li> <li>• International Journal of intelligent system design and computing</li> <li>• International Journal of swarm intelligence</li> </ul> |
| 7  | Prof. P.K.hota         | International Journal of med well publication   |
| 8  | Dr. J.P.Paramguru      | Literary voyage, Lang-Lit   |
| 9  | Mrs. Ashapura Dash     | Literary Society  |
| 10 | Prof. J.P.Panda        | <ul style="list-style-type: none"> <li>• International Journals of Dynamics of Fluids</li> <li>• International Journal of Theoretical and Applied Mechanics</li> </ul>  |
| 11 | Prof. A. N. Nayak      | <ul style="list-style-type: none"> <li>• International Journal of Architecture and Infrastructure Planning</li> <li>• International Journal of Landscape Planning and Architecture</li> </ul>   |
| 12 | Prof. P. C. Swain      | <ul style="list-style-type: none"> <li>• International Journal of Technology Management</li> </ul>  |

#### 3.4.4 Provide details of

#### Research awards received by the faculty and students

#### National and international recognition received by the faculty from reputed professional bodies and agencies

#### DETAILS OF RESEARCH AWARDS RECEIVED BY THE FACULTY

(2014-15, 2013-14, 2012-13, 2011-12, 2010-11)

| Year    | SL No | Name of Faculty        | Name of The Research Award                      | Year | Professional Body/Agency   |
|---------|-------|------------------------|---|------|--|
| 2014-15 | 1.    | Dr. G. Nath            | Dr. M.Pancholy Award                            | 2014 | Ultrasonic Society of India  |
|         | 2.    | Prof. S.K. swain       | DAE-BRNS Young Scientist Award , Govt. of India | 2011 | Govt. of India   |
|         | 3.    | Renu Kumari            | Best Oral & Poster Presentation                 | 2015 | IIT Kharagpur in association with IIT Kanpur, CDTA, Algeria & IIM, Kolkata |
|         | 4.    | Dr. Ajit Kumar Barisal | Best web shop                                   | 2015 | Elsevier   |
| 2013-   | 1     | Prof. S.K. swain       | INSA –SR Fellow                                 | 2013 | Govt. of India   |

|         |   |                        |   |      |  |
|---------|---|------------------------|---|------|--|
| 14      | 2 | Dr. Punyapriya Mishra  | Young Scientist Award-2012  | 2014 | Odisha Bigyan Academy  |
|         | 3 | Mr. S. S. Mohapatra    | Institute Silver Medal  | 2013 | NIT Rourkela   |
|         | 4 | Prof.A.N.Nayak         | Sayed Mumtaz Ali Memorial Award                                       | 2013 | Institution of Engineers   |
|         | 5 | Prof.A.N.Nayak         | Institution of Engineers Award  | 2014 | Institution of Engineers   |
| 2012-13 | 1 | Dr. P.L.Praveen        | Young Scientist Award   | 2012 | Dr. K.V.Rao Scientific Society, Hyderabad  |
|         | 2 | Dr. Rakesh Mohanty     | Best Research Paper award, Computer Science Track                     | 2012 | International Conference on Recent Advances in Engineering and Technology, Hyderabad |
|         | 3 | Dr. Rakesh Mohanty     | Professor P.K.Kar Memorial Citation lecture Award                     | 2013 | 21 <sup>nd</sup> National Conference on Indian Pharmacological society               |
|         | 4 | Dr. R.K. sahu          | Best paper award in IEEE conference                                   | 2013 | ICCPCT, 2013   |
|         | 5 | Dr. Ajit Kumar Barisal | State Award   | 2013 | Govt. of Odisha  |
| 2011-12 | 1 | Prof. S.K. swain       | JNCASR Fellow   | 2011 | Govt. of India   |
|         | 2 | Dr. Rakesh Mohanty     | Asia Pacific Excellence Award, Citizen Integration Peace Society 2011 | 2011 | Citizen Integration Peace Society 2011   |
|         | 3 | Prof. C.R. Tripathy    | Gold Medal,   | 2012 | American Biographical Institute, USA   |
|         | 4 | Prof.P.K.Pradhan       | M N Bhuyan Memorial Award   | 2011 | Institution of Engineers   |
| 2010-11 | 1 | Prof. P.K. Hota,       | Mother Teresa Excellence Award-2010                                   | 2010 | Integrated council for Socio-Economic Progress, Kerala                               |
|         | 2 | Prof. S.K. Swain       | DAE BRNS Young Scientist Award  | 2010 | Govt. Of India   |
|         | 3 | Prof. P.K. Pradhan     | M.N.Bhuyan Memorial Gold  | 2010 | Institution of Engineers (India)   |

|  |   |                        |                                    |      |   |
|--|---|------------------------|------------------------------------|------|---|
|  |   |                        | Medal                              |      |   |
|  | 4 | Dr. Ajit Kumar Barisal | Young Scientist Award-2010         | 2010 | Odisha Bigyan Academy                             |
|  | 5 | Dr. Ajit Kumar Barisal | Young Engineer Award               | 2010 | Institution of Engineers (India)                  |
|  | 6 | Dr. B.B.Pani           | Rajiv Gandhi Sadbhabana Award-2010 | 2010 |   |
|  | 7 | Prof. C.R. Tripathy    | Leading Scientist of the World,    | 2010 | International Biographical Centre, Cambridge, UK  |
|  | 8 | Prof. C.R. Tripathy    | Rashtriya Gourav Award             | 2010 | India-International Friendship society, New Delhi |
|  | 9 | Mrs. Leena Sinha       | Institute Gold Medal               | 2010 | NIT Rourkela                                      |

**3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?**

**TOTAL NUMBER OF RESEARCH SCHOLARS IN THE DEPARTMENT (ONGOING / COMPLETED)**

**(2014-15, 2013-14, 2012-13, 2011-12, 2010-11)**

| S.No | Name of The Department  | Number of Research Scholars (Ph.D) |         |         |         |         |
|------|---|------------------------------------|---------|---------|---------|---------|
|      |   | 2014-15                            | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| 1    | Civil Engineering   | 04                                 | 03      | 06      | NIL     | 02      |
| 2    | Mechanical Engineering  | 09                                 | 07      | 05      | 04      | 00      |
| 3    | Electrical Engineering and Electrical & Electronics Engineering | 06                                 | 02      | 05      | 05      | 01      |
| 4    | Electronics & Telecommunication Engineering                     |                                    |         |         |         |         |
| 5    | Computer SC & Engineering and Information Technology            | 10                                 | 6       | 5       | 8       | ---     |
| 6    | Production Engineering  | 2                                  | 3       | 7       | 2       | ---     |
| 7    | Metallurgy & Materials Engineering                              | 1                                  | ---     | ---     | ---     | ---     |
| 8    | Architecture  | ---                                | 01      | 01      | ---     | ---     |
| 9    | Physics   | 04                                 | 04      | 01      | ---     | ---     |
| 10   | Chemistry   | 06                                 | 05      | 06      | 04      | 02      |
| 11   | Mathematics   | 07                                 | 04      | 02      | 01      | 00      |



|         |          |    |     |     |     |     |
|---------|----------|----|-----|-----|-----|-----|
| 12      | Humanity | 01 | --- | --- | --- | --- |
| Average |          |    |     |     |     |     |

**3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

All the registered Ph.D research works carried out under a supervisor has a Doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinised by a plagiarism software for any malpractices. The M.Tech and B.Tech thesis are scrutinized by the concerned guide and reviewed by the academic committee.

**3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?**

Yes, the university promotes inter-disciplinary/ inter-departmental research. Computer Science & engineering, IT and ETC department are involved in interdisciplinary research

**3.4.8 Has the university instituted any research awards? If yes, list the awards.**

**DETAILS OF RESEARCH AWARDS RECEIVED BY THE FACULTY**

**(2014-15, 2013-14, 2012-13, 2011-12, 2010-11)**

| Year    | SL No | Name of Faculty        | Name of The Research Award                      | Year | Professional Body/Agency   |
|---------|-------|------------------------|---|------|--|
| 2014-15 | 1.    | Dr. G. Nath            | Dr. M.Pancholy Award                            | 2014 | Ultrasonic Society of India  |
|         | 2.    | Prof. S.K. swain       | DAE-BRNS Young Scientist Award , Govt. of India | 2011 | Govt. of India   |
|         | 3.    | Renu Kumari            | Best Oral & Poster Presentation                 | 2015 | IIT Kharagpur in association with IIT Kanpur, CDTA, Algeria & IIM, Kolkata |
|         | 4.    | Dr. Ajit Kumar Barisal | Best web shop                                   | 2015 | Elsevier   |
|         | 5     |                        |   |      |  |
| 2013-14 | 1     | Prof. S.K. swain       | INSA –SR Fellow                                 | 2013 | Govt. of India   |
|         | 2     | Dr. Punyapriya Mishra  | Young Scientist Award-2012                      | 2014 | Odisha Bigyan Academy  |
| 2012-   | 1     | Dr. P.L.Praveen        | Young Scientist                                 | 2012 | Dr. K.V.Rao  |

|         |   |                        |   |      |  |
|---------|---|------------------------|---|------|--|
| 13      |   |                        | Award   |      | Scientific Society, Hyderabad  |
|         | 2 | Dr. Rakesh Mohanty     | Best Research Paper award, Computer Science Track                     | 2012 | International Conference on Recent Advances in Engineering and Technology, Hyderabad |
|         | 3 | Dr. Rakesh Mohanty     | Professor P.K.Kar Memorial Citation lecture Award                     | 2013 | 21 <sup>nd</sup> National Conference on Indian Pharmacological society               |
|         | 4 | Dr. R.K. sahu          | Best paper award in IEEE conference                                   | 2013 | ICCPCT, 2013   |
|         | 5 | Dr. Ajit Kumar Barisal | State Award   | 2013 | Govt. of Odisha  |
| 2011-12 | 1 | Prof. S.K. swain       | JNCASR Fellow   | 2011 | Govt. of India   |
|         | 2 | Dr. Rakesh Mohanty     | Asia Pacific Excellence Award, Citizen Integration Peace Society 2011 | 2011 | Citizen Integration Peace Society 2011   |
|         | 3 | Prof. C.R. Tripathy    | Gold Medal,   | 2012 | American Biographical Institute, USA   |
|         | 4 |                        |   |      |  |
|         | 5 |                        |   |      |  |
| 2010-11 | 1 | Prof. P.K. Hota,       | Mother Teresa Excellence Award-2010                                   | 2010 | Integrated council for Socio-Economic Progress, Kerala                               |
|         | 2 | Prof. S.K. Swain       | DAE BRNS Young Scientist Award  | 2010 | Govt. Of India   |
|         | 3 | Prof. P.K. Pradhan     | M.N.Bhuyan Memorial Gold Medal  | 2010 | Institution of Engineers (India)   |
|         | 4 | Dr. Ajit Kumar Barisal | Young Scientist Award-2010  | 2010 | Odisha Bigyan Academy  |
|         | 5 | Dr. Ajit Kumar Barisal | Young Engineer Award  | 2010 | Institution of Engineers (India)   |
|         | 6 | Dr. B.B.Pani           | Rajiv Gandhi Sadbhavana Award-2010                                    | 2010 |  |
|         | 7 | Prof. C.R.             | Leading Scientist of  | 2010 | International  |

|  |   |                        |                           |      |   |
|--|---|------------------------|---------------------------|------|---|
|  |   | Tripathy               | the World,                |      | Biographical Centre,<br>Cambridge, UK                   |
|  | 8 | Prof. C.R.<br>Tripathy | Rashtriya Gourav<br>Award | 2010 | India-International<br>Friendship society,<br>New Delhi |

**3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?**

Yet to implement.

**3.5 Consultancy**

**3.5.1 What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.**

University has a structured consultancy. It has a policy to distribute the revenue generated from consultancy. 25% of revenue generated is given to the university, 1% for departmental contingency and the remaining amount is distributed among PIC and other staff members involved in consultancy.

Few important consultancies undertaken by the university during last four years is as follows:

- Transportation Engineering
  - Pavement design, traffic planning
- Geo-technical engineering
  - Soil investigation for foundation design and earthen structures such as embankment and roads
- Material testing
  - Aggregate testing for building construction and pavements
  - Testing of bitumen for pavements
  - Testing of steels, cements, bricks and all other building materials
- Design of structures
  - Steel and concrete structures
  - Design of overhead water tanks
- Vibration analyse of the machine tools
- Determination of mechanical properties, tribological behaviour of the samples
- Oil testing of different parameters (Indian oil Jharsuguda, MCL, sambalpur)
- Insulation testing of material (High Voltage Engineering Lab) (Sponsoret agency :GRIDCO)
- Failure analysis of welded joint in a Ammonia storage tank
- Website creation
- Software development
- Estimation of cement
- Determination of calcium in the soil
- Flash point, fire point, density, viscosity and other thermodynamical parameters of oil

- Determination of PH, conductivity, turbidity and total dissolved solid of water and other solutions

Sponsoring Agency: MCL, HINDALCO, Rajagangapur Cement

- VLSI Design
- Microprocessor and Embedded system Design
- Antenna Design

The following laboratories are used for consultancy work in civil engineering department.

- Concrete Lab
- Structural Engineering Lab
- Geotechnical Engineering Lab
- Transportation Engineering Lab
- Environmental Engineering Lab
- Chemistry lab
- VLSI Lab
- Microwave Engineering Lab
- Microprocessor Lab

**3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?**

Yes, The university have a industry institute interaction cell. We interact with industries in a regular basis. We have MOUs with Infosys Ltd. Bangalore, NI systems (India) Pvt. Ltd., hubli, SKF India Ltd., Chinchwad, Pune, Tech Mahindra, Pune and many more industries in nearby places. We invite experts from industries in a regular basis to deliver presentation to the students, guest lectures, seminars and conferences. MOUs resulted in internship, in-plant training and placement of the students.

**3.5.3 What is the mode of publicizing the expertise of the university for consultancy services? Which are the departments from whom consultancy has been sought?**

The university publicizes details of faculty expertise in the website. It also communicates to some industries in mail. The department also communicates regarding expertise in consultancy in alumni meet, thereby spreading the same to all corners.

**3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?**

The university encourages the faculty to utilize the expertise by providing necessary facilities for consultancy work. University has a structured policy to share the revenue generated from consultancy. Faculty members are provided with on duty leave. Administrative workload and Academic load is reduced for the faculties who are involved in consultancy activities.

**3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.**

The following departments are involved in consultancy work. The broad areas of consultancy

work are as follows:

### **Department of Civil Engineering**

- Transportation Engineering
  - Pavement design, traffic planning
- Geo-technical engineering
  - Soil investigation for foundation design and earthen structures such as embankment and roads
- Material testing
  - Aggregate testing for building construction and pavements
  - Testing of bitumen for pavements
  - Testing of steels, cements, bricks and all other building materials
- Design of structures
  - Steel and concrete structures
  - Design of overhead water tanks

### **Department of Mechanical Engineering**

- Vibration analyse of the machine tools
- Determination of mechanical properties, tribological behaviour of the samples

#### **Department of Production Engineering**

- Failure analysis of welded joint in a Ammonia receiver tank  
(Sponsored Agency: Shyam cold storage, Ainthapali, Sambalpur)

### **Department of Electrical Engineering**

- Oil testing of different parameters (Indian oil Jharsuguda, MCL, sambalpur)
- Insulation testing of material (High Voltage Engineering Lab) (Sponsored agency :GRIDCO)

### **Department of Electronics and Telecommunication Engineering**

- VLSI Design
- Microprocessor and Embedded system Design
- Antenna Design

### **Department of Computer science Engineering, IT and MCA**

- Website creation
- Software development

### **Department of Chemistry**

- Estimation of cement
- Determination of calcium in the soil
- Flash point, fire point, density, viscosity and other thermodynamical parameters of oil

- Determination of P<sup>H</sup>, conductivity, turbidity and total dissolved solid of water and other solutions

Sponsoring Agency: MCL, HINDALCO, Rajagangapur Cement

Amount Received in 2013-14: Rs. 33,000

| SL.No | Areas                          | Income (Rs.) |         |         |         |         |
|-------|--------------------------------|--------------|---------|---------|---------|---------|
|       |                                | 2013-14      | 2012-13 | 2011-12 | 2010-11 | 2009-10 |
| 1     | Concrete Lab                   | 413368       | 339768  | 530395  | 651776  | 254838  |
| 2     | Structural Engineering Lab     | 85468        | 112103  | 7488    | 27798   | 85280   |
| 3     | Geotechnical Engineering Lab   | 314160       | 292490  | 455636  | 234720  | 137050  |
| 4     | Transportation Engineering Lab | 303504       | 126242  | 139207  | 44040   | 15850   |
| 5     | Environmental Engineering Lab  | 24500        | 12000   | 38150   | 9500    | 9900    |

Annual turnover of consultancy work in the university is more than 20 lakhs per annum.

### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

#### **3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.**

A group of students of our university under the name of "SANSKAR KENDRA" have taken up the responsibility of social welfare through various programmes.

- Imparting education to the underprivileged children of nearby slums KIRBA & PANITANKI PADA for last 10 years.
- Moral development classes for ignorant people.
- Career guidance and vocational training guidance for underprivileged students.
- Sewing training programme for women.
- Computer education.

The university has been motivating and encouraging the students in various activities throughout the year with financial support from the SSG society and the vice-president of SSG taking care of social activities of the university. Faculties have also participated with great interest in these social events.

Through the involvement in these activities students have inculcated moral values in them, they are now interested and able to take social responsibilities and fit in the hierarchy of society as they can now understand the society better.

#### **3.6.2 How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?**

We are on our way for making the community in our vicinity self dependent in all aspects. Students through their social welfare work are in close contact with the neighbourhood and have formed a good network with localities. The Mahanadi Coalfields Limited (MCL) which is in the vicinity of the university has been a regular support for these events. For this the students of our University organised various health camps in collaboration with MCL every year in the villages i.e. Kirba & Panitanki Pada.

The VSS Institute of Medical Science And Research, Burla is very close to the University Campus & is around 2KM away from it. There is a close interaction with Doctors and Professor related to health care of the students. The Sambalpur University which is around 6 KM away from the University has various facilities in Arts, Commerce, Management and Science. The presence of the largest earthen Dam of Asia i.e. Hirakud Dam situated around 6 k.m. away from the campus gives enough exposure with respect to the practical knowledge to students of different disciplines of engineering.

### **3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programmes?**

Presently the VSSUT, Burla has two platoons of NCC and one teacher is acting as associated NCC officers for the Platoons. N.C.C. is offered for the benefit of the students as it builds their character, leadership, officer like qualities and helps them in selection for defence services. NCC aims at challenging a force of disciplined and trained manpower to help the country in a national emergency.

Students of the University who volunteer to join N.C.C are enrolled in the Engineering or Signals Platoons of 3 (Odisha) Composite Technical Company N.C.C at the 1st year level. The intake strength per platoon is 70 only. The unit is commended by a technical officer of rank as Major Lt. Col. of Indian Army.

Cadets are admitted to the certificate 'B' Examination after

- NCC, 'B' Certificate-8% bonus marks are awarded to B' Certificate holders in overall marks scored by him.
- NCC, 'B' Certificate – 'C' certificate holders are exempted from appearing in common entrance examination (CEE) and placed on the top of merit list if they meet the minimum laid down criteria of age, education qualification, physical and medical standards. They are however, required to pass physical fitness test (PFT).
- During selection of merit award for best all rounder special marks are awarded to students with NCC and NSS.

Cadets are also selected every year to attend Advanced Leadership courses, mountaineering Courses, Summer Training camps and different other camps which are held at various places in India. Some cadets are also selected to attend various army units for 21 days to get knowledge of actual army life in operation.

The university has been encouraging students as well as faculty for participating in regional, national and international camps. Our university 3(O) CTC has been organizing major NCC camps for last 2 years. Our students have participated in various National Integration camps, Annual training camps. Leave is being provided to students while they are attending any events.

Students of the university have been participating in various social service programmes like AIDS awareness, health and hygiene awareness programmes in slum areas under National Service Scheme.

Yoga club of the university takes care of the development of yogic activities around the campus with a dedicated full time mentor assigned the work of imparting yoga education to the students. Students practise AASANAS, POSTURES, and MEDITATION. Various other activities like SWACHH BHARAT ABHIYAAN and plantation are also carried out by this club at times in which university faculty members and students take part in large number.

Activities under YOGA Club:

- Practice of various postures, aasans.
- Practice of Pranayam.
- Practice of Transcendental Meditation and Raj Yoga Meditation.
- Value Education.
- Practice of meditation to increase concentration of mind, positive attitude patience and endurance. Through practice of aasans and pranayams the physical health and well being of students are attained.

**3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

A social survey cum research work is being carried out by the students under the project named “SANGHARSH”, which is centred around

- Getting the loopholes in the current education system and removing them.
- The reasons why Govt. schemes in education field can't reach the beneficiaries.
- Creating a network among voluntary organizations working in the field of education.
- Making a Govt. school a model school facilitated with all Govt. schemes and with harmony of students, their parents and teachers.

**3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Yes, the university authority has been keeping track of the students' involvements in various social activities through the Social Service Guild (SSG) which is the official society for social works. A professor is assigned the duty of the Vice president of the society to guide and track the activities. And some other faculties also accompany the Vice president of the society as faculty



advisor of the society. Students are nominated as Secretary and Assistant Secretary every year to undertake various social activities.

**3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

Our University has been producing technocrats, academicians, researchers, administrators since its inception and aims to provide efficient workforce & responsible citizens with moral values in future also. Various activities like NCC, NSS, social works carried out by students improves their personality and inculcates in them values like: leadership qualities, moral ethics and values, decision taking capabilities, human, time and resource management strategies.

**3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.**

**Community Participation**

Every year the community students' are allowed to our University to participate various programmes and interaction with our students' and teachers.

In our various technical events and workshops we are involving the students of schools giving them the latest technological resources. Apart from technical activities, students are also involved themselves in literary events and events carried out under NCC, NSS and Social Service work.

The university through watershed management project has encouraged the involvement of community participation in various planning and design activities of watershed. B.Tech projects and M.Tech thesis are carried on to solve various burning issues in watershed consisting of 5 villages under Dhankauda block of Sambalpur district.

**3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.**

- Acknowledged by Medical association for conducting blood donation camp.
- Acknowledged by Collector of Sambalpur for Blood donation camps.
- Big project reports under urban infrastructure development scheme for small and medium towns for Sambalpur were prepared by Civil Engineering department of this university for various sectors like road construction, water supply, heritage development, renovation of water bodies and public health facility to slums of Sambalpur. This was highly appreciated by the Urban Development department Govt. of Odisha.

The water shed activity conducted with the participation of rural poor people, students and faculty members of Civil Engineering department of this university, which leads to the final sanction by National Rural Roads Development Agency. Through this, millions of rupees are attracted for the development of road infrastructure of the state.

### 3.7 Collaboration

#### 3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?

The university has collaborations with the following industries.

| (a) | National Collaboration   | Date       | Purpose  |
|-----|--|------------|--|
| 1   | Infosys Ltd.,<br>Bangalore                                       | 21.06.2014 | This MOU is for collaboration between both parties, for mutual benefit, to enhance the quality of the educational experience of students.  |
| 2   | NI System (India) Pvt. Ltd., Hobli,<br>Bangalore                 | 26.06.2014 | Encouraging engineers from industry to visit Industry Institution Interaction Cell (IIC) to deliver lectures;<br>Participating of experts from industry in IIC curriculum development;<br>Visits of Faculty Member to industry;<br>Industrial Testing;   |
| 3   | SKF India Ltd.,<br>Chinchwad, Pune                               | 14.07.2014 | In view of the challenging environment and the need to provide students with better learning opportunities it is essential to form more industry-academic partnerships. Such an initiative provides students with excellent learning opportunities and helps in disseminating knowledge.                                       |
| 4   | Tech Mahindra,<br>Pune   | 13.08.2014 | Tech Mahindra and VSSUT are contemplating to enter into a long term mutually beneficially relationship in line with vision of Industry academic collaboration in areas of academic and technical exchange, to develop academic and scientific relationships, and in support of collaborative research and training activities. |
| (b) | International Collaboration                                      |            |  |
| 1   | Institute National Research Scientific (INRS),<br>Quebec, Canada | 12.09.2014 | Formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair MATECSS  |

The university is initiating MOUs with the following foreign universities:

- University of New Orleans, USA
- Florida International University
- University of Illinois, Chicago
- BTH (Blaking Technical University), Sweden
- Asian Institute of Technology (AIT), Bangkok

### **Industries related Curriculum development.**

|   |  |
|---|--|
| a | Infosys proposed 3 subject curriculum to introduced in the university course |
| b | NI proposed one subject curriculum to introduced in the university course    |

- The university get following benefit from the MOUs:
- Industry participation in seminars/workshops/conferences
- Student internship, in-plant training and placement
- Updating the curriculum based on industry need
- Introduction of industry based electives

#### **3.7.2 Mention specific examples of how these linkages promote**

- Curriculum development
- Internship
- On-the-job training
- Faculty exchange and development
- Research
- Publication
- Consultancy
- Extension
- Student placement
- Any other (please specify)

#### **Curriculum development**

Industry plays a significant role in curriculum development of the university. Each department takes inputs from the industry regarding the curriculum. Industry personals are also included in BOS. We need to bridge the gap between industry expectations and the academics.

#### **Internship, On-the-job training**

Students are encouraged to visit the industries for internship as well as for industrial visits. This will help them to understand the industry culture and working in a team. Some students are also undergoing in-plant training to know about the Industrial needs.

#### **Faculty exchange and development**

Experts from industries are invited to address the faculty and students through seminars/workshops/conferences as keynote speaker, etc. Hence, the students and faculty get benefit out of it.

**Research, Publication and Consultancy:** Faculty members are getting lot of inputs from industries to write project proposals to various external funding agencies UGC/DST/AICTE etc. They publish papers in journals and conference proceedings. Collaboration resulted in industry based consultancy projects in some department

## **Extension**

Students through their social welfare work are in close contact with the neighbourhood and have formed a good network with localites. The MCL which is in the vicinity of the university has been a regular support for these events. For this the students of our university organised various health camps in collaboration with MCL every year in the villages i.e. Kirba & Panitanki.

## **Student placement**

Many students (almost 100%) get placed in core and IT companies.

### **3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?**

Yes. The university is interacting with many different universities/industries. This has resulted in joint guide in research area of similar interest and publication of papers.

### **3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**

We are in the process of creation of specialized laboratories supported by industries.

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

#### **4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

University infrastructure has been developed based on the total number of intake of students and the faculty strength. The department gives their requirement regarding class room, tutorial room, laboratory spaces, faculty room and seminar halls to Dean(Academics). After getting all the information from the department, it is carefully studied by the Dean(academics) and PIC Time table and sees that all resources are used optimally. Sometimes, centralized seminar hall is used in a shared basis by all the department. Similarly, faculty rooms are also optimally used. Sometimes two faculty members share one room. University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization.

#### **4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

There is a Building and Works committee of the university which frequently meets to decide the infrastructural development of the university.

University plans for creation and enhancement of infrastructure facilities in the following situations:

- Starting of new programme or an increase in intake in a programme
- Plan for appointment of new faculty (requirement of faculty quarters)
- infrastructural/equipment and machinery requirements
- Requirement of Hostels for boys and girls

Recent initiatives taken by the university are as follows:

- Construction of second floor of academic building (Under progress/partly completed)
- Modernisation of library and faculty rooms (Completed in the year 2014)
- Construction of well equipped seminar halls in all departments (Expected to complete by April 2015)
- Construction of new guest house for the university (Expected to complete by April 2015)
- Construction of e-learning centre for the university (Expected to complete by June 2015)
- Construction of 300 seated Boys hostel (Pulasthya Hall of Residence) (Completed in the year 2014)
- Construction of 1008 seated M.Tech Boys hostel (Under progress)
- Construction of 100 seated SC ladies hostel (Under progress)
- Construction of faculty quarters F3R(12 units) and M4R (12 units)
- Renovation of Arundhati Hall of Residence(Completed in 2014)

**4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?**

Every laboratory of the department is well equipped to carry out the research work. All faculty members are provided with a computer and leased line 1 GBPS internet connectivity. In some department wi-fi facilities are provided. Library is an excellent place for learning. All e-journal and e-resources are available to download and utilize the research papers for carry out the research work.

**4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?**

Every department of the university have office room, faculty room, common room and separate rest rooms for men and women students and staff in each floor.

**4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?**

The class rooms for the disabled students are accommodated in the ground floors. Our supporting staffs are available to assist them in need basis. Ramp facilities are available in some places for the students to reach the class room and the rest room.

**4.1.6 How does the university cater to the requirements of residential students? Give details of**

- Capacity of the hostels and occupancy (to be given separately for men and women)
- Recreational facilities in hostel/s like gymnasium, yoga centre, etc.
- Broadband connectivity / wi-fi facility in hostels.

| Boys/Girls   | Sl. No. | Name of the Hall of Residence | Total No. of Students |
|--------------|---------|-------------------------------|-----------------------|
| Boys         | 1       | Marichi Hall of Residence     | 281                   |
|              | 2       | Kratu Hall of Residence       | 283                   |
|              | 3       | Atri Hall of Residence        | 290                   |
|              | 4       | Vasistha Hall of Residence    | 358                   |
|              | 5       | Pulasthya Hall of Residence   | 435                   |
| Girls        | 6       | Anuradha Hall of Residence    | 303                   |
|              | 7       | Arundhati Hall of Residence   | 293                   |
|              | 8       | Visakha Hall of Residence     | 275                   |
|              | 9       | Angira Hall of Residence      | 148                   |
| <b>TOTAL</b> |         |                               | <b>2666</b>           |

- Recreational facilities in hostel/s like gymnasium, yoga center, etc. are available

- Internet connectivity and wi-fi facility is available in the hostels.
- 1GBPS leased line internet connectivity is available throughout the campus and in some places wi-fi facility is available. However, we have already initiated wi-fi and security solutions for the entire campus and hostel.

#### **4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?**

The university has insured the accident insurance policy for all the students. With this policy the student can claim reimbursement of expenses incurred for any type of accident which takes place anywhere at any time. An ambulance is available in the university to take the students/staff to hospital during emergency situations. A well equipped dispensary with a full time Doctor, deputed from Health department, Government of Odisha, pharmacist and the attendant appointed by the university are available to provide day-to-day medical facilities to the student and staff members. However, VSS medical college and hospital is immediate vicinity of the university which provides round the clock medical facilities.

#### **4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?**

##### **Sports and games**

University has an area of five acres to promote sports activities of the students. Following facilities are available for the students for sports and games:

- Indoor and outdoor sports facilities are available for the students
- Facilities are available for outdoors games like Cricket, Football, Hockey, Volleyball, khokho and Kabadi also for athletes (tracks available).
- Facilities are available for indoor games like Table Tennis, Badminton, Carrom, Chess etc.
- Gymnasium facilities available

The university has got a well-qualified trainer to train and motivate the students. The students are allowed to participate in various games in intra, inter engineering sports meet and state tournaments and begged many awards and recognitions. Every year the university conducts Sports Day function and awards the students and staff for their achievement in sports. Students are given exemption in attendance while they represent the university in the tournaments and sports.

##### **Cultural activities**

The university has following student bodies and societies to promote cultural and extra mural activities. The Vice chancellor is the president of all student bodies. One of the faculty members nominated as vice-president for all the respective societies.

- Student cultural society
- Dramatic club

- Music club
- Art and photography club
- Literary society
- Audio-visual club
- Samavesh
- Yoga club
- Galaxy
- Social service guild
- Robotics club
- Baja sae club

The following events are organized by different society/club/association

- Annual cultural fest
- Inter hostel drama
- Music and dance
- Technical events
- Robotics competition
- Debate competition
- Preparation of vehicle to participate in different national and international events

## **4.2. Library as a Learning Resource**

### **4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?**

- Yes, the library has an advisory committee.
- Composition of committee is as follows:
  - Prof-in-charge, Library- Chairman
  - One faculty member from each Department
  - Librarian – Convenor
- Significant Initiatives taken by the committee is as follows:
  - 642 nos. of Journals from Elsevier available
  - 250 Journals and 600 Conference proceedings from IEL Online
  - Accessing all the Journals of Taylor & Francis, Springer, American Chemical Society, Royal Society of Chemistry, Economic & Political weekly, JCCC
  - ASME and ASCE
  - Books procured of Rs. 40 lakhs including text books and reference books.
  - Print Journals of Rs. 20 lakhs including Indian and International Journal.
  - To provide a separate magazine and newspaper reading room.

### **4.2.2 Provide details of the following:**

- **Total area of the library (in Sq. Mts.):** 10,900 sqft.



- **Total seating capacity:** 150
- **Working hours (on working days, on holidays, before examination, during examination, during vacation):**
  - **Working days:** 8.30 A.M. to 8.30 P.M.
  - **During summer:** 7A.M. to 1P.M. & 3P.M. to 8.30 P.M.
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) :**
- **Lounge area for browsing:** Yes, 9 Nos. of computers
- **IT zone for accessing e-resources:** 50 nos. of computers for accessing e-resources
- **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection:**
  - **Ground Floor:**
    - Circulation (Issue/Return)
    - Stock
    - Book Bank
    - Reprography
    - Binding Section
  - **First Floor:**
    - Journal Section
    - Reading room
    - Magazine/Newspaper
    - Computer room for browsing
    - Administrative section
    - Prof-in-charge, Library
    - Sr. Librarian
    - Librarian
  - **Second Floor:**
    - Reading Room
    - E-Library
    - Reference Section
    - SC/ST section
- **Adequate sign boards:** Yes
- **Fire Extinguisher:** 8 nos.

#### 4.2.3 Give details of the library holdings:

- a) **Print (books, back volumes and theses) :**  
 Books: 51,900 vols.  
 Back Volume Journals: 9,000  
 Theses: 20
- b) **Average number of books added during the last three years:** 3948 vols.  
 No. of books added in 2010: 1161  
 No. of books added in 2014: 2787 vols.

- c) **Non Print (Microfiche, AV):** Yes
- d) **Electronic (e-books, e-journals) :**
- Elsevier's Science Direct
  - IEL Online
  - Taylor & Francis Journal
  - Springer Journal
  - American Chemical Society
  - Royal Society of Chemistry
  - Economic & Political weekly
  - JCCC
  - ASME
  - ASCE
- e) **Special collections (e.g. text books, reference books, standards, patents) :**
- Text Books:** Yes
- Reference Books:** Yes, British encyclopaedia, Science & Technology encyclopaedia, Year Book, Manuals, Bibliography, Dictionary, Bhasakosha, etc.
- Standards:** Yes, Indian Standard, British Standard, American Standard
- f) **Book Banks:** Yes, 3915 vols.
- g) **Question Banks :** Yes

#### 4.2.4 What tools does the library deploy to provide access to the collection?

- **OPAC:** Yes
- **Electronic Resource Management package for e-journals:** Yes
- **Federated searching tools to search articles in multiple databases:** Google Scholar, J-Gate Custom content consortia (JCCC)
- **Library Website:** On process
- **In-house/remote access to e-publications:** Yes

#### 4.2.5 To what extent is ICT deployed in the library? Give details with regard to

- **Library automation:** Fully automated using SLIM 21 Software
- **Total number of computers for general access:** 58 nos.
- **Total numbers of printers for general access:** 6 nos.
- **Internet bandwidth speed:** 1GBPS
- **Institutional Repository:** On process, Institutional repository by using DSpace.
- **Content management system for e-learning:** Yes, NPTEL Course materials and e-content developed by the faculty members
- **Participation in resource sharing networks/consortia (like INFLIBNET):** Yes

#### 4.2.6 Provide details (per month) with regard to

- **Average number of walk-ins:** 8000
- **Average number of books issued/returned:** 5000
- **Ratio of library books to students enrolled:** 1:16
- **Average number of books added during the last four years:** 3948 vols
- **Average number of login to OPAC:** 6000
- **Average number of login to e-resources:** 1,84,095 log in 1,22,405 log in for Science Direct & 61,690 for IEL Online
- **Average number of e-resources downloaded/printed:** Total 60,226 articles downloaded Articles downloaded from Science Direct is 41,156 & IEL is 19,070
- **Number of IT (Information Technology) literacy trainings organized:** 10.Nos. of literacy training programmes organized.

#### 4.2.7 Give details of specialized services provided by the library with regard to

- **Manuscripts:** NA
- **Reference:** Reference books including Dictionary, encyclopaedia, manuals, and standards.
- **Reprography/Scanning:** Reprography facility is provided
- **Inter-library Loan Service:** NA
- **Information Deployment and Notification:** Yes
- **OPACS :** WebOpac: <http://192.168.0.254/webslim/Default.php>
- **Internet Access:** Yes
- **Downloads :** Yes
- **Printouts:** Yes
- **Reading list/ Bibliography compilation:** Yes
- **In-house/remote access to e-resources :** Yes
- **User Orientation:** Yes
- **Assistance in searching Databases:** Yes
- **INFLIBNET/IUC facilities:** Yes

#### 4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

- **Library Budget for 2013-2014:** Rs. 1 crore and 35 lakhs & Rs. 40 lakhs spent on purchase of books and journals.
- **Library Budget for 2014-2015:** Rs. 1 crore and 27 lakhs

#### 4.2.9 What initiatives has the university taken to make the library a ‘happening place’ on campus?

The University has taken initiatives like: purchase of books, Journals, Magazines and Newspapers, Novels, subscription of e-journals, Purchasing Anti-Plagiarism software, etc. for the users to make the library more user friendly.

**4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?**

Informal feedback is received from the users. As per the feedback, the Librarian and the Library committee take major steps to improve the library services.

**4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.**

In the year 2014, the Central Library is totally renovated with aluminium & glass partition.

### **4.3 IT Infrastructure**

**4.3.1 Does the university have a comprehensive IT policy with regard to**

- **IT Service Management**
- **Information Security**
- **Network Security**
- **Risk Management**
- **Software Asset Management**
- **Open Source Resources**
- **Green Computing**

Veer SurendraSai University of Technology, Burla is a burgeoning institute which has an optimized scalable network throughout the University campus and has established a standard policy to evaluate, design, implement, maintain, and utilize the infrastructure. A Technical Executive Committee cum Departmental Purchase Committee has been framed to improve the efficiency and extension of IT infrastructure at par with academic as well as administrative needs of the University.

The University has framed appropriate regulatory bodies and IT personnel to monitor the information as well as network security. The integrity of information is well maintained by the authorized person to access the legal requirements and also continuous monitoring is done to avoid breaches of confidential information. All generic threats posed by computer hackers are addressed to protect information. The system Manager monitors the log user accesses remotely, to identify the unwanted actions by other people with the help of CISCO & HUAWEI hardware firewall.

**4.3.2 Give details of the university's computing facilities i.e., hardware and software.**

- **Number of systems with individual configurations**
- **Computer-student ratio**
- **Dedicated computing facilities**
- **LAN facility**
- **Proprietary software**

- Number of nodes/ computers with internet facility
- Any other (please specify)
  - Total number of systems: 920
  - Computer-Student ratio

| S.No | Department                                  | Computer Student Ratio |
|------|---|------------------------|
| 1    | Civil Engineering                           | 1:5                    |
| 2    | Mechanical Engineering                      | 1:6                    |
| 3    | Electrical Engineering                      | 1:4                    |
| 4    | Electronics & Telecommunication Engineering | 1:2                    |
| 5    | Computer SC& Engineering                    | 1:2                    |
| 6    | Production Engineering                      | 1:4                    |
| 7    | Material & Metallurgical Engineering        | 1:4                    |
| 8    | Electrical & Electronics Engineering        | 1:5                    |
| 9    | Information Technology Engineering          | 1:4                    |
| 10   | Master of Computer Application              | 1:4                    |
| 11   | Physics                                     | 1:6                    |
| 12   | Chemistry                                   | 1:6                    |
| 13   | Mathematics                                 | 1:6                    |
| 14   | Humanity                                    | 1:4                    |
| 15   | Architecture                                | 1:4                    |

**1. Dedicated computing facilities:**

| S.No | Department                                  | Facility   |
|------|---|--|
| 1    | Civil Engineering                           | Computation Lab  |
| 2    | Mechanical Engineering                      | CAD/CAM workstationLab   |
| 3    | Electrical Engineering                      | Computer Lab   |
| 4    | Electronics & Telecommunication Engineering | VLSI Lab, TSE Lab, Communication Lab, DSP Lab.                             |
| 5    | Computer SC & Engineering                   | Computer Lab   |
| 6    | Production Engineering                      | Robotics & FMS Lab, CAD Lab, Machine Tools Lab, Virtual Manufacturing Lab. |
| 7    | Material & Metallurgical Engineering        | Computer Lab   |
| 8    | Electrical & Electronics Engineering        | Computer Lab   |
| 9    | Information Technology Engineering          | Computer Lab   |
| 10   | Master of Computer Application              | C, C++ Programming Lab, Graphics Lab, JAVA Lab.                            |
| 11   | Physics                                     | Computer Lab   |
| 12   | Chemistry                                   | Computer Lab   |
| 13   | Mathematics                                 | Computer Lab   |
| 14   | Humanity                                    | Language Lab   |
| 15   | Architecture                                | Computer Lab   |

## 2. LAN Facility:

A campus wide wired network with OFC and UTP combination has been deployed with an internet connectivity of 1Gbps. Wi-Fi facility is available in all departments.

## 3. Proprietary software / Open source Software:

| S.No | Department                                  | Proprietary software  | Open source Software                           |
|------|---|---|--|
| 1    | Civil Engineering                           | Windows 8, MS Office 2007, Adobe Reader, dopdf, Auto Cad 2009,  |  |
| 2    | Mechanical Engineering                      | Windows 8, Nortran/Patran   |  |
| 3    | Electrical Engineering                      | Windows 8, MS Office 2007, Adobe Reader, dopdf, Mat Lab, ETAP, EMTBC, PSCAD, EMTP, VC++, VB++.  |  |
| 4    | Electronics & Telecommunication Engineering | Windows 8, MS Office 2007, Adobe Reader, dopdf  |  |
| 5    | Computer SC & Engineering                   | Windows 8, Rational Rose, Visual Studio 2005, Visual Basic 6.0, MSDN IBM DB2, Java, C, C++, MySql, Sql Server 2005, MS Office 2007, Net Beans, Mat lab, Adobe Reader, dopdf, Opnet    | C, C++, Java, Liberooffice, NS2                |
| 6    | Production Engineering                      | Windows 8, MS Office 2007, Adobe Reader, dopdf  |  |
| 7    | Material & Metallurgical Engineering        | Windows 8, MS Office 2007, Adobe Reader, dopdf  |  |
| 8    | Electrical & Electronics Engineering        | Windows 8, MS Office 2007, Adobe Reader, dopdf, ETAP Power Station, MATLAB, PSCAD   |  |
| 9    | Information Technology Engineering          | Windows 8, Rational Rose, Visual Studio 2005, Visual Basic 6.0, MSDN, Java, C, C++, MySql, Sql Server 2005, MS Office 2007, Net Beans, Adobe Reader, dopdf, Sun Java, Stylus Studio   | C, C++, Java, Liberooffice, Pencil, Flex, Gimp |
| 10   | Master of Computer Application              | Windows 8, Rational Rose, Visual Studio 2005, Visual Basic 6.0, MSDN IBM DB2, Java, C, C++, MySql, Sql Server 2005, MS Office 2007, Net Beans, Mat lab, Adobe Reader, dopdf, Eclipse, | C, C++, Java, Pencil, Flex, Gimp               |

|    |              |   |  |
|----|--------------|---|--|
|    |              | COBOL   |  |
| 11 | Physics      | Windows 8, MS Office 2007, Adobe Reader, dopdf              |  |
| 12 | Chemistry    | Windows 8, MS Office 2007, Adobe Reader, dopdf              |  |
| 13 | Mathematics  | Windows 8, MS Office 2007, Adobe Reader, dopdf              |  |
| 14 | Humanity     | Windows 8, MS Office 2007, Adobe Reader, dopdf, CASM (ISIL) |  |
| 15 | Architecture | Windows 8, MS Office 2007, Adobe Reader, dopdf              |  |

4. **Number of nodes/ computers with internet facility: 920**

5. **Any other:**

| S.No | Department                                  | Number of Printer | Number of Scanner | Number of Printer cum Scanner |
|------|---|-------------------|-------------------|-------------------------------|
| 1    | Civil Engineering                           | 2                 | 2                 | 15                            |
| 2    | Mechanical Engineering                      | 3                 | 2                 | 12                            |
| 3    | Electrical Engineering                      | 2                 | 1                 | 13                            |
| 4    | Electronics & Telecommunication Engineering | 1                 | 1                 | 8                             |
| 5    | Computer SC & Engineering                   | 1                 | 0                 | 9                             |
| 6    | Production Engineering                      | 1                 | 0                 | 4                             |
| 7    | Material & Metallurgical Engineering        | 1                 | 0                 | 1                             |
| 8    | Electrical & Electronics Engineering        | 1                 | 0                 | 6                             |
| 9    | Information Technology Engineering          | 0                 | 0                 | 4                             |
| 10   | Master of Computer Application              | 1                 | 1                 | 4                             |
| 11   | Physics                                     | 1                 | 0                 | 5                             |
| 12   | Chemistry                                   | 1                 | 0                 | 5                             |
| 13   | Mathematics                                 | 0                 | 0                 | 4                             |
| 14   | Humanity                                    | 0                 | 0                 | 3                             |
| 15   | Architecture                                | 1                 | 0                 | 0                             |

#### 4.3.3 **What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

As far as the infrastructural up gradation is concerned our university has already proposed and in progress for campus wide Wi-Fi connectivity, advanced firewall security, Bio metrics time attendance system, Video conferencing system already installed, CCTV camera, office

automation. e-Learning centre is under construction. The university intend to upgrade to advanced version of PC and software department wise.

**4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.**

The university has central facilities like central library having reading room equipped with 50 no's of computers with internet facility. Central Internet Facility having 100 no's of computers for internet browsing. This enables users to access e-resources for teaching, learning and research. NPTEL course materials and faculty e-course contents are available in our server for students' access.

**4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?**

All departments are equipped with an LCD projector and high speed internet connectivity for teaching-learning process. A few seminar halls with ceiling mounted LCD and screens are provided. Faculty members uses e-resources, NPTEL course materials and webinars etc. in teaching-learning process

**4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?**

All the teachers are provided with individual computers having high speed internet connection which enables them for effective teaching and quality research. Faculties can download e-journals subscribed by the library which helps them to understand the current research.

**4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?**

University has a language lab equipped with LCD projector, sound system and collar mikes. University has ICT enabled class room in all department and seminar halls. The Central Computer Facility and Central Internet Facility with 200 no's of computers are utilised by the students/faculties.

**4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?**

All the faculties are provided at their sitting places with computers, Internet connectivity, Intercom facility, printer and scanner which enables them to prepare computer aided teaching/power point presentations etc.



#### **4.3.9 How are the computers and their accessories maintained?**

All the computers and their accessories are maintained by skilled technicians available in departments. The computers and UPS are under AMC for better maintenance.

#### **4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?**

The university is availing 1Gbps internet connectivity under NME-ICT scheme, which has been migrated to NKN but the services are yet to be availed under NKN.

#### **4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?**

Central library avail those resources for the benefit of students, research scholars and faculties. Faculties use those web resources which helps them to enhance their teaching-learning process.

#### **4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.**

Budget proposal is submitted by each department to the Registrar which includes:

- Wi-Fi connectivity across the university campus.
- Internet gateway security.
- End point security
- Purchase of Computers.
- Purchase of Software for different Labs.
- Purchase of Lab equipment.

The budget provision to every department during the ensuing academic year shall be discussed in HOD's meeting and in the board of management meeting.

#### **4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?**

The first step initiated in this regard is uploading the faculty course materials in the university website [www.vssut.ac.in](http://www.vssut.ac.in).

### **4.4 Maintenance of Campus Facilities**

#### **4.4.1 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives under taken to improve the physical ambience.**

The university has a civil maintenance section with one maintenance engineer, one campus supervisor and 20 allied staff. There is one Professor In charge (PIC) of civil work who will look after the day-to-day maintenance of university buildings, class rooms and laboratories, hostels and staff quarters. The painting of the walls is carried out once in every three years and also on

need basis. There is a complain register available in the maintenance section where day-to-day complains are recorded. Accordingly, the maintenance engineer will visit the department, class rooms and laboratories to sort out the problems with the help of concerned staff for the minor issues. The section is responsible for maintenance of university garden, student hostels and faculty quarters. The university authority reviews the complain record in regular manner.

**4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.**

The infrastructural facilities are maintained by the maintenance section. The university has entered into AMC with various companies for maintaining the equipment. The respective departments are made responsible for maintenance of equipment and renewal of AMC. Each department have qualified technical personal to look after the machineries of various laboratories. The equipment which are not under AMC is also serviced based on the request submitted by the concerned HOD, with the help of the company which supplied the item or with the help of specialized engineers. Similarly, the PIC Electrical maintenance takes care of the electrical maintenance work.

## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

#### **5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?**

Yes, the university has an independent system for the student support and mentoring. Faculty advisor scheme gives a balanced emotional support to the students and reduces their over-anxiety. For every class, three faculty members are assigned for tutoring, guiding and mentoring the students. These faculty members are acted as proctors. Students of a particular class are divided into three groups and each group is assigned to one of these three members. Each member of the team is assigned about 20 students and he/she is responsible for counselling/mentoring the respective group of students. Proctors are available at all time to support and advice the students. The students are free to contact the proctor whenever a problem arises. The proctor deals with problems such as academic, personal, home, family, relationships, depression, anxiety and loneliness.

The Placement Cell extends its service to the students in career guidance and interpersonal development skills. The cell organizes soft skills and language development programmes from time to time. The cell invites companies for campus recruitment. Also, a separate student counselling committee exists in the university to take care of the students needs.

#### **5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?**

Provisions exist for academic mentoring apart from class room interaction is as follows:

- Guidance to weak students - special care is taken on the students who have scored less mark in the internal examinations/Quiz test and those students are guided individually.
- Bridge course/remedial classes/ conducted for needy and students of slow learners.
- Personal counselling and guidance to students who have failed in the semester examinations.
- Technical test/technical seminar/soft skills for final and pre-final year students. This will help them to take up placement and higher studies.
- Encouraging and motivating the students to take up mini projects to improve their technical skill.

Special emphasis is provided in laboratory classes. The students are allowed to do the experiments individually and some experiments in a batch in the laboratory classes.

Laboratory staffs are providing assistance to the weaker students.

#### **5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.**

The university has many schemes for personal enhancement and growth of the students. The Training and Placement Cell provides guidance and training to the students. The cell organizes pre-placement training programme for the students such as soft skills and

personality development programmes. It also makes arrangements for preparing the students for job market by making them equipped with employability skills. The faculties and the Heads of the Departments provide technical training and orientation to the students of their respective departments. The Departments also organize health awareness camps every year for the students and other faculty members in association with NSS. Several value added courses are organised by the department.

**5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Yes. During the time of admission the university conducts an interaction programme by inviting nationalized banks to its premises. The financially weaker students can avail such facilities by directly interacting with the bank personnel. The university provides all necessary requirements for the students immediately to get such loan facilities.

**5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

The university publishes its information brochure every year. The information brochure provides all the necessary information to the students joining the university. The following details are provided in the information brochure.

- Complete profile of the university and different departments
- Detailed facilities available in the university.
- Instruction to the students
- Academic calendar
- Central facilities like workshop, library, internet and computer centre
- Academic regulations for all the programmes
- Hall of residence facilities
- Student societies
- Extracurricular activities mainly NCC, NSS
- Scholarship and awards
- University fees
- List of holidays
- Contact number of all teaching and non teaching employees.

All the above information is available in internet.

**5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./Diploma/others (please specify).**

Students of this University can accept financial assistance from all recognized sources so long as the conditions imposed by the donors for continued acceptance of such aids are not violated. The following scholarship and awards are offered by various through the University. All the scholarships are directly routed to the students.

| Sl. No. | Name of the Scholarship / Award   | Awarding Agency                                    | Value of Scholarship  |
|---------|---|--|---|
| 1       | National Scholarship, Odisha, Bhubaneswar                                     | Director, Higher Education,                        | Rs. 3000/-PM<br>(day scholarship)<br>Rs.120/-PM<br>(for boarders)   |
| 2       | State Loan Stipend  | Director, Higher Education,<br>Odisha, Bhubaneswar | Rs. 12,000/-PM  |
| 3       | Post Matric Scholarship for SC/ST Student                                     | District Welfare Officer,<br>Sambalpur             | Reimbursement of semester of Rs. 10,000/- and fees + Rs. 740/- for merit for Boarders as maintenance allowance. |
| 4       | Disabled Scholarship  | District Welfare Officer,<br>Sambalpur             | Rs. 3500/-PM  |
| 5       | National Talent Search Scholarship  | NCERT, New Delhi                                   | Rs. 6000/-PM  |
| 6       | Jindal Trust Scholarship  | Jindal Trust, Bangalore                            | As decided by the trust   |
| 7       | Nehru Memorial Scholarship  | NALCO, Bhubaneswar                                 | Rs. 6000/-PM  |
| 8       | NTPC Scholarship to SC/ST students  | NTPC, New Delhi                                    | Rs. 10,000/-PM  |
| 9       | Sr. Merit Scholarship   | Director, Higher Education,<br>Odisha, Bhubaneswar | Rs. 50/- PM   |
| 10      | Sports Talent Scholarship   | Director of Sports & Youth Services, Odisha        | Rs. 75/- PM   |
| 11      | SAIL Scholarship for SC/ST students   | SAIL, New Delhi                                    | Rs. 450/- PM  |
| 12      | Scholarship to the children of the employees of coalfields                    | Eastern Coal Fields Ltd.                           | Amount fixed by Coal fields Ltd.  |
| 13      | Minorities Scholarship  | VST Devi<br>Dept. of Minorities                    | Rs. 10,000/-  |
| 14      | Merit Scholarship for the children of teachers of primary & secondary schools | Govt. of Odisha                                    | Rs. 1500/- P.A.   |
| 15      | Scholarship for the children of Postal Dept. employees                        | Post Master General, Odisha                        | Rs. 100/- P.M.  |
| 16      | Tata Jubilee Scholarship for the children of Tata Iron & Steel Co. Ltd.       | Tata Steel Charitable Trust                        | Rs. 350/- P.M.  |
| 17      | Silver Jubilee Award to Best Graduates  | Old Boys Association,<br>Rourkela                  | Rs. 100/- P.M.  |
| 18      | Silver Jubilee Award to Best Graduates  | Madnabati charitable Trust,<br>Sambalpur           | Rs. 125/- P.M.  |
| 19      | Prof. D. Roy memorial award for the best Mechanical Engg. Graduate            | Prof. D. Ray                                       | Rs. 500/-   |
| 20      | Malay Kumar Das Memorial Gold medal   | Parents of   | Gold Medal  |

|    |   |  |  |
|----|---|--|--|
|    | for the best Civil Engg. Graduate of the University   | Late Malay Kumar Das                                 |  |
| 21 | Malay Kumar Das Memorial Gold Medal for the Best Engg. Graduate among all the graduating students of the University based on Academic Performance.                                    | Parents of Late Malay Kumar Das                      | Rs. 1000/- P.M.  |
| 22 | Best Scholarship to the dependent children of Ex-Servicemen/Widows  |  |  |
| 23 | Achyutananda Pujari Gold Medal for best Civil Engg. Graduates   | Prof. Nirmal Pujari                                  | Gold Medal   |
| 24 | Prof. J. N. Panda memorial Gold Medal for the best Electrical Engg. Graduate of the University & Book Prize to the student securing highest Book Prize marks in Math in 3rd Semester. | Dr. S. Panda, NUS, Singapore                         | Gold Medal   |
| 25 | Meritorious Women Scholarship   | Director, Higher Education, Odisha                   | Rs. 1000/- P.M.  |
| 26 | Scholarship for the Children of BSNL employees  | BSNL, Bhubaneswar                                    | Rs. 500/- P.A.   |
| 27 | MCL Scholarship   | MCL, Burla   | Rs. 1800/- P.A.  |
| 28 | CISF EDUCATIONAL  | CISF, New Delhi                                      | Rs. 1800/- P.A.  |
| 29 | Merit Scholarship to needy and meritorious students   | Vikash Educational / Charitable Trust, Vizag         | Rs. 20000/- P.A.                                       |
| 30 | Merit Scholarship to needy and meritorious students   | B.D. Patnaik Charitable Trust, Keonjhar              | Rs. 20000/- P.A.                                       |
| 31 | National scholarship to disabilities students   | Govt. of India                                       | Rs. 17000/- P.A.<br>(Rs. 1000 Sch. +7000/- course fee) |
| 32 | Bank scholarship to the wards of Bank Employee  | Awarded by respective Bank                           |  |
| 33 | Tech. scholarship to the wards of postal employee   | CPMG, Odisha, Bhubaneswar                            |  |
| 34 | Merit Scholarship to students   | Awarded by SAMAJ, Cuttack                            | Rs. 6000/- P.A.  |
| 35 | Merit Scholarship to the wards of BSNL Employees  | Awarded by BSNL                                      |  |
| 36 | Merit Scholarship to the wards of Mines employees   | Welfare Commissioner Labour Welfare Organization     | Rs. 8000/- P.A.  |
| 37 | National Merit scholarship  | Directorate of Higher Education, Odisha, Bhubaneswar | Rs. 7500/- P.A.  |
| 38 | 1 <sup>st</sup> year Boy topper & Girls topper  | 1984 batch Alumini of UCE                            | Cash award (P.A.)                                      |
| 39 | P.G. GATE scholarship   | AICTE, New Delhi                                     | Rs. 8000/- P.A.<br>Rs. 5000/- (Contingency)            |

**5.1.7. Tuition fee waiver scheme for women, economically backward and physically handicapped meritorious students (upto 10% of sanction strength in each discipline) as per AICTE guide lines.**

The scholarship/ freeships given to the students in the last 4 years are as follows:

| Name of the Scholarship | Stream | 2014-2015       |              | 2013-2014       |              | 2012-2013       |              | 2011-2012       |              |
|-------------------------|--------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
|                         |        | Nos.of Students | Gross Amount | Nos.of Students | Gross Amount | Nos.of Students | Gross Amount | Nos.of Students | Gross Amount |
| SC                      | B.Tech | 98              | 50lakhs      | 52              | 16lakhs      | 47              | 14 lakh      | 53              | 16lakh       |
| ST                      | B.Tech | 127             | 64lakhs      | 34              | 10lakhs      | 85              | 25 lakh      | 98              | 30 lakh      |
| OBC                     | B.Tech | 262             | 40lakhs      | 182             | 27lakhs      | 96              | 15 lakh      | 10              | 2.5lakh      |
| SC                      | MCA    | 2               | 1 lakhs      | nil             | Nil          | 2               | 60 thou      | 2               | 70thou       |
| ST                      | MCA    | 2               | 1 lakhs      | nil             | Nil          | 1               | 30 thou      | 1               | 35thou       |
| OBC                     | MCA    | 9               | 1.5lakh.     | 8               | 1.4lakhs     | 11              | 2 lakh       | 8               | 2lakh        |
| SC                      | M.Tech | 1               | 50 thou      | 2               | 1 lakh       | 2               | 60thou       | nil             | nil          |
| ST                      | M.Tech | 2               | 1 lakhs      | 1               | 50 thou      | 1               | 30thou       | nil             | nil          |
| OBC                     | M.Tech | nil             | nil          | 2               | 35 thou      | 4               | 70 thou      | nil             | nil          |
| SC                      | M.Sc.  | nil             | nil          | 3               | 60 thou      | nil             | nil          | nil             | Nil          |
| ST                      | M.Sc.  | 1               | 20thou       | 1               | 20 thou      | nil             | nil          | nil             | nil          |
| OBC                     | M.Sc.  | 2               | 30 thou      | 7               | 1 lakh       | nil             | nil          | nil             | nil          |
| Merit scholarship       | B.Tech | 636             | 64lakhs      | 867             | 87 lakhs     | 660             | 6.60lakh     | 487             | 4.87lakh     |
| Merit scholarship       | MCA    | 21              | 2 lakhs      | 32              | 3.2 lakh     | 31              | 3.1lakh      | 21              | 2.1lakh      |
| Merit scholarship       | M.Sc.  | 1               | 10 thou      | 11              | 1.1 lakh     | nil             | nil          | nil             | Nil          |
| Merit scholarship       | M.Tech | nil             | nil          | 02              | 20 thou      | 06              | 60thou       | 04              | 40thou       |
| TEQIP scholarship       | M.Tech | 11              | 10.5lakh     | 19              | 18.24lakh    | 09              | 8.7 lakh     | nil             | nil          |
| GATE scholarship        | M.Tech | 152             | 1.5corer     | 100             | 96 lakh      | 55              | 52.8lakh     | 37              | 35.5lakh     |
| Inspired scholarship    | M.Sc   | nil             | nil          | 02              | 1.6lakh      | nil             | nil          | nil             | nil          |
| Inspired fellowship     | Ph.D   | 1               | 1.5 lakh     | 01              | 1.5lakhs     |                 |              |                 |              |
| Univ.Fellosh ip         | Ph.D   | 21              | 37.8lakh     | 13              | 23.4lakh     | nil             | nil          | nil             | nil          |
| Minority scholarship    | B.Tech | 1               | 30 thou      | 1               | 30thou       | nil             | nil          | nil             | nil          |
| NHFDC scholarship       | B.Tech | 1               | 60thou       | 3               | 1.8 lakh     | 1               | 60 thou      | nil             | Nil          |
| PM scholarship          | B.Tech | 15              | 3.5lakh      | 8               | 2 lakh       | 3               | 72 thou      | 4               | 96 thou      |

|                     |        |     |         |     |         |     |         |     |         |
|---------------------|--------|-----|---------|-----|---------|-----|---------|-----|---------|
| Bank scholarship    | B.Tech | 2   | ----    | 2   | ----    | 2   | ----    | 6   | -----   |
| MCL scholarship     | B.Tech | 2   | -----   | 7   | ----    | 2   | -----   | 2   | -----   |
| CHSE scholarship    | B.Tech | 11  | 1.1lakh | 8   | 80 thou | 3   | 30 thou | 1   | 10thou  |
| NTS scholarship     | B.Tech | 1   | 36 thou | 1   | 36thou  | 2   | 36thou  | 1   | 36 thou |
| SAIL scholarship    | B.Tech | 1   | ----    | 1   | ----    | nil | Nil     | 1   | ----    |
| CBSE scholarship    | B.Tech | 8   | 80thou  | 7   | 70thou  | nil | Nil     | 5   | 50 thou |
| BSNL scholarship    | B.Tech | nil | nil     | 2   | -----   | 1   | ----    | 3   | -----   |
| LIC scholarship     | B.Tech | nil | nil     | 1   | -----   | nil | nil     | nil | Nil     |
| TATA steel          | B.Tech | nil | nil     | 1   | -----   | 1   | ---     | nil | Nil     |
| IOCL scholarship    | B.Tech | nil | nil     | 2   | 72 thou | nil | Nil     | 1   | 36 thou |
| SJ Jindal           | B.Tech | nil | nil     | 1   | -----   | nil | Nil     | nil | Nil     |
| HAL scholarship     | B.Tech | Nil | nil     | 1   | -----   | 1   | -----   | 1   | -----   |
| UCIL scholarship    | B.Tech | nil | nil     | nil | nil     | 1   | -----   | nil | Nil     |
| Railway scholarship | B.Tech | nil | nil     | nil | nil     | 1   | ---     | nil | Nil     |
| RECPOCL             | B.Tech | nil | nil     | nil | nil     | 1   | -----   | nil | Nil     |
| Rajya Sainik        | B.Tech | nil | nil     | nil | nil     | nil | nil     | 1   | 5 thou  |
| Nominee scholarship | B.Tech | 10  | 1 lakh  | 10  | 1 lakh  | 10  | 1 lakh  | 10  | 1 lakh  |
| SC UGC scholarship  | M.Teh  | 01  | -----   |     |         |     |         |     |         |

**N:B** All the scholarship amount has been disbursed to the concerned students account directly by the concerned authority except TEQIP, Inspired and University fellowship.

**5.1.8 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KV PY), SN Bose Fellow, etc.)?**

30% of the students of this university receive financial assistance from different organizations on an average basis.

**5.1.9 Does the university have an International Student Cell to attract foreign students and cater to their needs?**

VSSUT is established under the Odisha state act and it is guided by act and statute approved by Govt. of Odisha. At present there is no provision to admit International students.



#### **5.1.10 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

At present there is no provision to admit International students. Hence, financial assistance to foreign students for obtaining educational loans is not applicable.

#### **5.1.11 What types of support services are available for**

- **Overseas students**
- **Physically challenged / differently-abled students**
- **SC/ST, OBC and economically weaker sections**
- **Students participating in various competitions/conferences in India and abroad**
- **Health centre, health insurance etc.**
- **Skill development (spoken English, computer literacy, etc.)**
- **Performance enhancement for slow learners**
- **Exposure of students to other institutions of higher learning/ corporates/business houses, etc.**
- **Publication of student magazines**

#### **Overseas students**

At present no student from foreign country is studying in the university.

#### **Physically challenged / differently-abled students**

The university has concern for differently disabled students. Class rooms and laboratory for them are arranged in the ground floor. Special ramps are provided in some places.

#### **SC/ST, OBC and economically weaker sections**

Scholarships/Freeships provided to the students belonging to SC/ST/OBC category. Scholarships provided by the State Government and other financial institutions. The SC/ST cell of the university headed by a Professor I/C look after the problems of the SC/ST students. Economically weaker students are encouraged and supported by tuition fee waiver scheme. University also helps the financially weaker students from the SSG and students aid fund. In addition, they are also exempted from paying mess dues in the hostel. There is a SC/ST book bank with about 15,000 books. Seven books are issued to a SC/ST student for one academic year only on each semester. In addition, there is a specifically 100 seated SC Girls hostel which is under construction, from the centrally funded scheme “BABU JAGJIVAN RAM CHATRAVAS YOGANA”

#### **Students participating in various competitions/conferences in India and abroad**

Students are participated in seminars/project exhibitions/workshops/paper presentation/Tech fest conducted by other institutions/universities. Students participate in Robotics competitions and designed all-terrain vehicle (ATV) to participate in different national and international events.

**Health centre, health insurance etc.**

The university has insured the accident insurance policy for all the students. With this policy the student can claim reimbursement of expenses incurred for any type of accident which takes place anywhere at any time. An ambulance is available in the university to take the students/staff to hospital during emergency situations. A well equipped dispensary with a full time Doctor deputed from Health department, Government of Odisha, pharmacist and the attendant appointed by the university are available to provide day-to-day medical facilities to the student and staff members. However, VSS medical college and hospital is immediate vicinity of the university which provides round the clock medical facilities.

**Skill development (spoken English, computer literacy, etc.)**

Soft skill and spoken English programmes are regularly conducted by the Training and Placement Cell of the university for the benefit of the students. This will help the students to develop their personality and face the campus interview. In addition, technical training programmes like C/C++/Data structure/Relational Database Management systems are also conducted to improve the technical skills of the students before facing the campus interview. There is a language laboratory which provides the basic facilities to the students to develop their communication skills.

**Performance enhancement for slow learners**

Following activities are conducted in the university for slow learners

- Special emphasis is given to clarify their doubts.
- Extra classes are conducted during Sundays and holidays
- Motivating the students
- Lecturer notes provided in lucid manner

**Exposure of students to other institutions of higher learning/ corporates/business houses, etc.**

Students are participated in seminars/project exhibitions/workshops/paper presentation/Tech fest conducted by other institutions/universities. Students participate in Robotics and all-terrain vehicle (ATV) competitions and begged many prizes. Following activities are arranged for the students to expose them to the outside world:

- Industrial visits are arranged to expose the functioning of industries.
- Students go for internship in different industries/IITs
- Interaction with corporate bodies are arranged in the university
- Successful entrepreneurs are invited to motivate and tell their success stories

**Publication of student magazines**

University publishes a Magazine known as BECLITS, Annual report and Newsletter yearly which includes various activities and achievements of students.

**5.1.12 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?**

Yes, the university organises special coaching classes for the GATE Examinations. The outcome is around 30% of our students qualifying in the GATE examination.

**5.1.13 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

- **Additional academic support and academic flexibility in examinations**
- **Special dietary requirements, sports uniform and materials**
- **Any other (please specify)**

Following facilities are available for the students for sports and games:

- Indoor and outdoor sports facilities are available for the students
- Facilities are available for outdoors games like Cricket, Football, Hockey, Volleyball, khokho and Kabadi also for athletes (tracks available).
- Facilities are available for indoor games like Table Tennis, Badminton, Carrom, Chess etc.
- Gymnasium facilities available

The university has got a well-qualified trainer to train and motivate the students. The students are allowed to participate in various games in intra, inter engineering sports meet and state tournaments and bagged many awards and recognitions. Every year the university conducts Sports Day function and awards the students and staff for their achievement in sports. Students are given exemption in attendance while they represent the university in the tournaments and sports. Special mid semester examination is conducted for those who represented the university in State and National sports events. Sports uniforms are provided by the athletic club of the university. The medical officer of the university gives dietary advices to the sports students.

**5.1.14 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?**

The University has a Training & Placement department headed by a professor. The training and placement department acts as an interface between various industries and the University. It arranges campus interviews in the campus. It also coordinates with other institutes of this state and outside states for off-campus recruitment drive. It facilitates the industrial visits, training and internship programmes.

The department also conducts mock tests, GD classes (in collaboration with the Humanities Department) and various activities for development of communication/leadership skills. It also arranges different web based seminars (WEBINAR) and web based talks. It also conducts workshops to make the students aware of diversified career opportunities available in the market. Pre-placement training programmes are conducted by a third party for the benefit of the students. The department also suggests and coordinates various technical

training, workshop training programs like lab development, robotics, Photoshop, automation etc.

**5.1.15 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

| Name of the programme | Academic Year         |                         |                       |                         |                       |                         |                       |                         |
|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
|                       | 2014-2015             |                         | 2013-2014             |                         | 2012-2013             |                         | 2011-2012             |                         |
|                       | No of students placed | No of companies visited | No of students placed | No of companies visited | No of students placed | No of companies visited | No of students placed | No of companies visited |
| B.Tech                | 380                   | 12                      | 366                   | 13                      | 328                   | 20                      | 356                   | 30                      |
| M-Tech/MCA            | 7                     |                         | 14                    |                         | 15                    |                         | 30                    |                         |

| Academic Year | List of few companies visited                                   |
|---------------|---|
| 2014-2015     | Infosys, Wipro, Maruti Suzuki Ltd., TATA STEEL, L&T ECC, JSL    |
| 2013-2014     | Infosys, Wipro, Maruti Suzuki Ltd., L&T ECC, Sankalpa, TRL, IBM |
| 2012-2013     | TCS, SPCL, HINDALCO, JSPL, BHARATI INFRATEL, EXL INFOTEL        |
| 2011-2012     | Infosys, TATA MOTORS, CUMMINS, SPCL, Ashok Leyland, Honda       |

**5.1.16 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?**

Yes. The university has a registered Alumni Association which is registered as a society as per Society Registration Act. 1860 (SBP-5909-23/2005-06 dated 31.08.2005). VSSUT alumni are global leaders holding prestigious position in reputed organizations in world wide. Many of them have excelled as professionals in various fields. The aim of the alumni association of VSSUT is:

- To foster and keep up a sense of fraternity and good will along the ex-students of the university.
- To refresh their pleasant memories of the student career and to inculcate a sense of pride for their alma-mater.
- To maintain a record of their contribution to the field of engineering profession.
- To serve as a link of introduction of the present student of the university to its old boys/girls.
- To hold annual general body meeting and executive body meeting in order to discuss:
  - Development of the activities of the association and
  - Interesting topic related to engineering profession.

Vice Chancellor VSSUT is the president of the association.

Major contribution by alumni association

- Plays an important and active role in upgrading UCE Burla to University status.
- Construction of e-learning centre which is in progress
- Construction of golden jubilee gate

- Construction of golden jubilee seminar hall
- Upgradation and modernization of central computing facilities and central internet facilities
- Renovation of dining hall and mess of student hostels
- Sponsoring scholarships for students
- Supporting training and placement department to enhance campus placement for students
- Organizing and sponsoring conferences, workshops and seminars
- Organizing global alumni meet.

**5.1.17 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

Yes, this University has a grievance redressal cell based on the letter received by UGC letter no. D.O. No. F.1-2/2012, dated 14.07.2014 where the Dean, Students' Welfare is the Nodal officer of the Cell. Till date there is no grievance reported to the cell.

**5.1.18 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.**

- Yes, our University is regularly conducting gender related programmes in sports as well in cultural fronts. Girl students are encouraged to participate in every technical event which is conducted in this University and also in state and national level events.
- Yes, we have a cell and mechanism to deal with issues related to sexual harassment. This mechanism is called as complaints committee, based on the verdict of Hon'ble Supreme court of India (AIR 1997, SC 3011) and letter from UGC (D.O. No. F.7-1/2009(W.S) Dt. 11.10.2011) which deals the complaints received on sexual harassments. The complaints committee consisting of following members:
  - Mrs. Sudhira Rath, Assistant Professor in Civil Engineering, Chairperson
  - Mrs. Shanti Behera, Assistant Professor in Electrical Engineering, Member
  - Miss. Suvasini Rout, Member
  - Dr. M.R.Kabat, Assistant Professor in CSE, Member
  - Mr. Kabiraj Sethi, Assistant Professor in ETC Engineering, Member

The main function of complaints committee is as follows:

To address the complaints of sexual harassment and violence against women in the University as per Vishaka guidelines of the Hon'ble Supreme Court and National Commission for Women.

**5.1.19 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

- Anti-Ragging Committee: This University has an Anti-Ragging Committee which is formed every year where the Hon'ble Vice Chancellor is the Chairman, Dean, Students' Welfare as Convener and Registrar, HODs, Teachers representative, Non Teaching staff, Guardian representative, Senior students, Freshers, Media and

NGO as Members.

- Anti Ragging Prevention Committee: The University has an Anti- Ragging prevention Committee which is formed every year, where the Warden of the Concerned Hall is the Chairman, Ass. Warden, Care Taker, Clerk, Development Secretary, Common Room Secretary, Topper of each wings and 3to 4 boarders of each hall are members.
- Anti Ragging Squad: As per the direction of Hon'ble Supreme Court of India, each year an Anti Ragging squad is formed with Dean, Students' Welfare as Convener, All HODs and All Wardens and Asst. Wardens of Halls of Residence are Members.
- Anti Ragging Programs: Every year Anti Ragging programs are prepared where the faculty members visit every Hostel to check ragging in hostel premises.

Apart from some indiscipline incidents, where the culprits were punished, this University doesn't have a single ragging incident reported.

#### **5.1.20 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

This University has societies like SSG, NSS and NCC where the students put their efforts to develop their skills. In SSG and NSS students are engaged to develop the under developed as well their own development. Students of this University are regularly being guided by the faculty members on their intellectual idea development. This university also provides Industrial training regularly in collaboration with the Industries so the students will get theory as well as practical knowledge.

#### **5.1.21 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

Every year Annual Athletic Meet is organised and as the University is a Co-education University every year huge numbers of Women are taking part in sports activities. Year wise competition are organised in between the women students and various types of games are played. Various women students are also taking part in various annual meet organised by IITs, NITs and various Universities in India. As far as cultural activities are concerned the students of this University are taking part in Cultural Festival in this University as well as Cultural Festivals organised by IITs, NITs and other technical Universities by prior approval of the Hon'ble Vice Chancellor. This University also encourages the participation of women participant in both sports and cultural activities.

## **5.2 Student Progression**

### **5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.**

Programme wise student data is already given in 21.1.

| <b>Student Progression</b> | <b>%</b> |
|----------------------------|----------|
| UG to PG*                  | 24%      |
| PG to M.Phil.*             | 10%      |
| PG to Ph.D.                | 25%      |
| Ph.D. to Post-Doctoral     | NA       |
| Employed                   |          |

- Campus selection 80%
- Other than campus recruitment 20%

**5.2.3 What is the programme-wise completion rate during the time span stipulated by the university?**

|                                |         |
|--------------------------------|---------|
| <b>UG:</b>                     | 4 years |
| <b>M.Tech:</b>                 | 2 years |
| <b>M.Sc:</b>                   | 2 years |
| <b>5 Year Integrated M.Sc:</b> | 5 years |

**5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?**

30% of students are appearing and qualifying in TOEFL/ GRE /GATE /CAT/ UGC-NET /XAT examinations.

**5.2.5 Provide category-wise details regarding the number of Ph.D./ D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.**

Total number of Ph.D submitted is 2.

**5.3 Student Participation and Activities**

**5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.**

In this University an Athletic club is there where annual athletic meet is conducted every year. Sports activities like Khokho, Kabaddi, Voley ball, Badminton, Running events, Cricket and Football are conducted in which huge numbers of students are taking part. This University has a Music club which do regular practice for various events on this University as well as to take part in events conducted by IITs, NITs and in other technical Universities. This University has a literary society which conducts literary events like group discussion, quiz's and other literary activities where students are taking part in various national level competitions.

**5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.**

Our University has a BAJA SAE and SUPRA SAE collegiate clubs where the students prepare vehicle and take part in University/State/Zonal / National/ International level competitions where they are consistently securing good position. Once the vehicle of BAJA SAE was selected among three institutions in India to take part in an American event. Our Robotic society is also taking part in ABU ROBOCON which is a national level competition where our students are getting respectable position regularly.

**5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?**

Yes, this University conduct special drives/ Campaign for students to promote heritage consciousness through our “SANSKAR KENDRA” working under the SSG society. Through this heritage are promoted in our University.

SANSKAR KENDRA also promoting the heritage to nearby localities by conducting special drives.

**5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.**

The university encourages students to publish articles in the university journals. In addition, students also publish their articles in the wall magazine. The major publications brought out by the students are as follows:

- University magazine (Beclits)
- University souvenir (Galaxy)
- Brochure published by Training and Placement Cell
- Information Brochure of the university
- University Newsletter
- Proceeding of Srujan, Innova, Race, Gamut, Resonance (Every students of their department publishes proceedings in the student society)

**5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

The University has different clubs, societies and association in which the Hon'ble Vice Chancellor is the president and faculty members are nominated as vice presidents. The secretaries and assistant secretaries were selected by personal interview based on the CGPA they had secured in their last qualifying examination. The secretaries are responsible for the functioning of their respective clubs, societies and association for which they are selected. Every year the subscription collected from the students in the heads of the respective clubs, societies and association are transferred to the respective Vice President's accounts for the functioning of the same.



**5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.**

The students represented as member in the following academic and administrative bodies:

- Academic council
- Placement committee
- Anti-Ragging committee
- Anti-ragging Squad
- Hostel Anti-Ragging committee
- Council of Hall of Residence
- Mess management committee
- Hall Development committee

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

#### **6.1.1 State the vision and the mission of the university.**

##### **University Vision and Mission**

###### **Vision**

To emerge as an internationally acclaimed Technical University to impart futuristic technical education and creation of vibrant research enterprise to create quality engineers and researchers, truly world class leader and unleashes technological innovations to serve the global society and improve the quality of life.

###### **Mission**

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

- Participative learning in a cross-cultural environment that promotes the learning beyond the class room.
- Collaborative partnership with industries and academia within and outside the country in learning and research.
- Encouraging innovative research and consultancy through the active participation and involvement of all faculty members.
- Facilitating technology transfer, innovation and economic development to flow as natural results of research wherever appropriate.
- Expanding curricula to cater broader perspectives.
- Creation of service opportunities for upliftment of the society at large.

#### **6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?**

Yes. The mission statement defines the universities objectives for the upliftment of the society. Students through their social welfare work are in close contact with the neighbourhood and have formed a good network with localites. The Mahanadi Coalfields Limited (MCL) which is in the vicinity of the university has been a regular support for these events. For this the students of our University organised various health camps in collaboration with MCL every year in the villages i.e. Kirba & Panitanki.

Students are actively participating in NCC which aims at exacting a force of disciplined and trained manpower to help the country in a national emergency.

Official yoga club of the university takes care of development of yogic activities around the campus with a dedicated full time mentor assigned the work of imparting yoga education to the students. Students practise AASANAS, POSTURES, MEDITATION. Various other activities like SWACHH BHARAT ABHIYAAN and plantation are also carried out by this club at times in which university faculty and students take part in large.

University has been keeping track of the students' involvements in various social activities through the SOCIAL SERVICE GUILD which is the official society for social works. A professor is assigned the duty of the vice president of the society to guide and track the activities. And some other faculties also accompany the vice president of the society as faculty advisor of the society.

Every year the community students' are allowed to our University to participate various programs and interaction with our students' and teachers.

### **6.1.3 How is the leadership involved**

**In ensuring the organization's management system development, implementation and continuous improvement?**

**In interacting with its stakeholders?**

**In reinforcing a culture of excellence?**

**In identifying organizational needs and striving to fulfill them?**

The Vice chancellor being the academic and administrative head of the university maintains proactive role in encouraging and motivating all staff members for overall academic growth and development of the university. Meetings are conducted among Deans, HODs and Professors on a regular basis to discuss the quality improvement in the system and smoothing the development process of the university.

Vice chancellor interacts with all the stakeholders to get suggestions from them for further improvement in academics and other issues. Students meeting are conducted to understand their needs and problems.

Identifying the organizational needs is utmost important, which is collected from different individuals directly or indirectly related with the university.

Project proposals are prepared by concerned professors and HOD under the direction and leadership of Honourable Vice Chancellor for the development in infrastructure, proposals to digital india (funding from central Govt.) for Internet security and wi-fi solutions, proposals to different external funding agencies for Research Promotion Scheme.

### **6.1.4 Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.**

NO.

**6.1.5 Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?**

Yes. Meetings of the different administrative bodies are conducted in regular intervals throughout the academic year to plan and review various aspects of functioning of the university.

The meeting of Board of Management (BOM) is conducted to finalize the policy decision of the university.

Academic council meeting is conducted twice in a year to discuss various academic issues, examination and curricular aspects.

Finance Committee is conducted to formulate the strategies of the finance aspects of the university.

Board of studies (BOS) meeting is conducted to discuss and deliberate changes in the syllabus and the need for the students in changing industry scenario.

To coordinate various events of the university faculty members are assigned the responsibility of Vice-president of different society. Meetings are conducted regularly along with Dean (Student Welfare) to coordinate different cultural and extra-curricular activities.

**6.1.6 Does the university promote a culture of participative management? If yes, indicate the levels of participative management.**

Participative management is promoted by the university at a greater extent. Participative management is promoted at three different levels.

- At department level where the meeting is coordinated by concerned HOD
- At various Deans level where the meeting is coordinated by concerned Dean
- At university level where the meeting is coordinated by concerned Vice-chancellor.

**6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.**

University is unitary. It does not affiliate any colleges.

**6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?**

University is unitary. It does not affiliate any colleges.

**6.1.9 How does the university groom leadership at various levels? Give details.**

Leadership provided at various levels are as follows:

**Dean (Academics)** – is responsible for all academic affair and plans for academic growth of the university.

**Dean (Faculty planning)** – is responsible planning and development of the university liaising with all the relevant external bodies like AICTE/UGC and State Govt.

**Dean (Sponsored Research and Industrial Consultancy (SRIC) & Continuing Education Programme (CEP))** – is responsible for promoting sponsored research and consultancy from different external funding agency like DST/AICTE/UGC/CSIR etc. In addition, he also coordinates with the departments and the industries for consultancy work. He is also responsible for smooth conduct of various faculty development programmes (FDPs), seminars, workshops, conferences, refresher course etc. The Quality Improvement Programme (QIP) for admission into Ph.D programmes sponsored by MHRD is coordinated by the Dean (SRIC & CEP).

**Dean (Student Welfare)** – is responsible for maintenance of student discipline within the academic block and also in the Halls of residence. In addition, he looks after various students' welfare activities like insurance of the student and all the student cultural, techno management festival, drama, literary, etc.

**HODs** – academic planning and development of the concerned department.

#### **Professor-in-charges (PIC)**

- **PIC Central Internet Facility (CIF) & Central Computer Facility (CCF)** – is responsible for overall growth of IT infrastructure of the university for the benefit of the students and staff like providing uninterrupted internet facilities in the campus as well as in the Halls of residence. In addition, he is also coordinates the necessary latest hardware and softwares, videoconferencing, biometric and cctv requirements of the university.
- **PIC Civil works** – is responsible for maintenance of minor civil works of university building, halls of residence and staff quarters on a regular basis.
- **PIC Electrical Maintenance** - is responsible for electrical maintenance of university building, halls of residence and staff quarters on a regular basis.

**Vice president** – Leadership is provided at faculty level to be the vice president of various clubs to coordinate different society/club activities such as Student cultural society, Dramatic club, Music club, Art and photography club, Literary society, Audio-visual club, Samavesh, Yoga club, Galaxy, Social service guild, Robotics club, Baja sae club.

The following events are organized by different society/club/association

- Annual cultural fest
- Inter hostel drama
- Music and dance
- Technical events
- Robotics competition
- Debate competition
- Preparation of vehicle to participate in different national and international events

#### **6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.**

Any idea or knowledge that is created or received by the Vice chancellor is well disseminated to all levels. Such knowledge sharing leads to better creativity among the faculty members and evolve new ideas in them which will lead to better outcome.

Any learning experience by a faculty member who is deputed to attend seminars/workshops/FDPs/paper presentation in a conference outside university are shared among the faculty members and students. They are also required to submit a report to the respective heads of the department and the Technical Education Quality Improvement Programme (TEQIP) cell.

#### **6.1.11 How are the following values reflected the functioning of the university?**

- **Contributing to national development**
- **Fostering global competencies among students**
- **Inculcating a sound value system among students Promoting use of technology**
- **Quest for excellence**

##### **Contributing to national development**

The goal of higher education is to equip the individual with knowledge and skills that meaningfully contribute towards meeting societal needs and thereby contribute to the development of the nation. This goal has been embodied in the vision and mission of the university and is substantially met through the following means:

- Opening of different specialized programmes
- Inculcating different core competencies among the students
- Teaching-learning methodology to improve the domain knowledge
- Improve the cognitive skills of the students
- Experiential and project based learning
- NCC and NSS for social development and good citizenship

##### **Fostering global competencies among students**

Well-equipped laboratories and worldwide acceptable curriculum fosters the global competencies among the students.

##### **Inculcating a sound value system among students Promoting use of technology**

Community development programmes are organized and students through their social welfare work are in close contact with the neighbourhood and have formed a good network with localities. Students organised various health camps in collaboration with MCL every year in the villages i.e. Kirba & Panitanki.

##### **Quest for excellence**

University not only give emphasis on academic development it also give stress on curricular and

extra-curricular activities in the students. Ultimately students excel in overall development which meets the vision of the university.

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?**

- **Vision and mission**
- **Teaching and learning**
- **Research and development**
- **Community engagement**
- **Human resource planning and development**
- **Industry interaction**
- **Internationalisation**

#### **Vision and mission**

University has a perspective plan for the development. It takes steps to fulfil its vision and mission.

#### **Teaching and learning**

Faculty members are trained to facilitate active and interactive learning to the students. Faculty members are trained to use different teaching methodology in the class room. It helps the students to understand and retain the concept for long time. Student involvement in the class room is given importance and weightage. Students are motivated to do so. The following methods help to make the teaching-learning student-centric:

- Student seminars, group discussions, and brainstorming sessions
- Students take up mini project work
- Experiential learning is achieved in laboratory classes/projects
- Organizing soft skills and personality development classes
- Library, internet facility and language lab for value addition
- Availability of learning resources

Student faculty interactions outside the class room are speciality of the university. The students can meet the faculty members and clear their doubts anytime. Remedial courses are conducted by each department.

#### **Research and development**

University has taken steps to encourage faculty members to pursue research. Sponsored Research & Industrial Consultancy (SRIC), a special R&D Cell, and Continuing Education Programme (CEP), a special academic development cell, was set up as an interface between funding agencies and the university to run sponsored research projects, industrial consultancy assignments, seminars and conferences.

QIP centre at this university deals with Ph.D. programmes for the faculty members of other institutions/universities inside and outside Odisha. Faculty members from AICTE recognized degree level institutions from all over the country are pursuing Ph.D. degree programme under this scheme.

To promote research the university encourages faculty members to participate and present papers in various State/National/International seminars and conferences. Faculty members are allowed to attend the conference and all the expenses are borne by the university/TEQIP. E-journals are subscribed by the library which is being used by the faculty, research scholars and the students.

### **Community engagement**

Our students and staff are engaged in community development. Students through their social welfare work are in close contact with the neighbourhood and have formed a good network with localities.

A group of students of our university under the name of “SANSKAR KENDRA” have taken up the responsibility of social welfare through various programmes.

- Imparting education to the underprivileged children of nearby slums KIRBA & PANITANKI for last 10 years.
- Moral development classes for ignorant people.
- Career guidance and vocational training guidance for underprivileged students.
- Sewing training programme for women.
- Computer education.

### **Human resource planning and development**

Human resource planning and development plays an important role in the growth of the university. University has a perspective plan for increasing the strength of faculty members. In last four years more than 120 faculty members have joined the university.

### **Industry interaction**

Industry interaction is a continuous process. University is surrounded by different core industries. University has a strong alumni base who are placed in many reputed industries/academic institutions/entrepreneur. Alumni are invited to interact with the students. Many MOUs have been signed with different industries for student placement, internship, conducting workshop and also helps in industrial visits.

### **Internationalisation**

We are in the process of signing MOUs with some foreign universities for research and development, faculty exchange and student exchange. At present, we invite professors from foreign universities for invited talk in international conference. Recently, following professors are participated in the international conference on Computational Intelligence in Data Mining ICCIDM' 2014 conducted by Computer science and Engineering and IT department as keynote



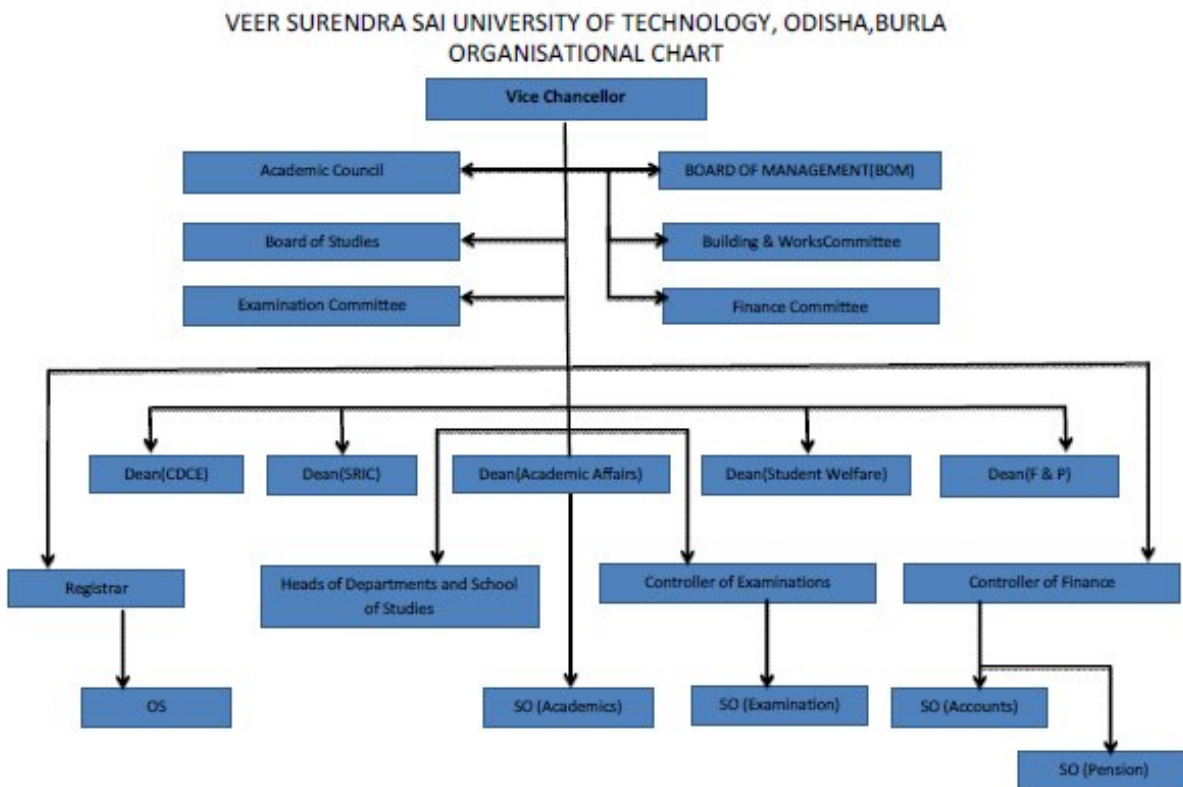
speaker.

- Prof. Ajith Abraham, Machine Intelligence Research (MIR) Labs, Washington, USAIT4Innovations-Centre of excellence, VSB-Technical University of Ostrava, Czech Republic
- Prof. D. Sharma, Distinguished Professor, University of Canberra, Australia

**6.2.2 Describe the university’s internal organizational structure and decision making processes and their effectiveness.**

The organizational structure of the university involves leadership and decision making at different levels such as HODs, Deans, Vice president of all clubs/society and all PICs. The system of decentralized helps in smooth functioning of the university and development in a highly effective manner. Major plans are discussed in the University Committee for Perspective Planning (UCPP) where all the Deans and few senior professors are members. The purpose of UCPP is to plan for the various developmental activities on need and priority basis. All suggestions provided by HODs and Deans are seriously viewed and considered in toto or with some modifications. In this way, top down and the bottom up approach are used to initiate new plans / suggestions. The organizational structure of the university is as follows:

**Organizational Structure**



**6.2.3 Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?**

The university has formal Aims and Objectives and quality policy.

**Aims and objectives**

- To produce quality undergraduates, postgraduates and Ph.Ds in the area of Science, Technology and Computer Applications.
- To impart better teaching and enhance research activities by adopting new methods of education.
- To strengthen the interaction with industries and institutes of national/international importance.
- To help the nearby industries and Govt. and non-Govt. Organisations through sponsored research and consultancy services.

**Quality Policy**

The university endeavours to achieve customer satisfaction by providing quality education, training and R&D activities through

- Quality improvement of faculty
- Continuous updates of facilities
- Involvement at all levels and
- Commitment for continual improvement

The quality policy has been designed and formulated based on the vision and mission of the university and is the strong guiding force that helps departments to plan their activities. All the heads of the departments are driven towards fulfilment of the quality policy and subsequently the mission and vision. The quality policy is communicated to all the stakeholders. These objectives are regularly reviewed at all levels in the statutory body and finally revised in the academic council meetings.

**6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?**

All the academic departments function independently. Department HOD is responsible for all the academic activities as per the statutes of the university. HOD is responsible for the smooth conduct of the department. Time to time, HOD conducts departmental meetings to discuss various issues related to subject distribution, laboratory development, course completion etc. All the faculty members actively participate in the discussion and finally it is recorded for future reference. In this way, all the HODs are accountable for their departmental development.

**6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?**

The following court cases have been filed against the university:

- WPC Number 19566 of 2011 filed by Prashant Kumar Pradhan, Lecturer in Mechanical Engg., VSSUT, Burla regarding recruitment of faculties where he himself was a candidate for the post of Reader in Mechanical Engg, Production Engg and Workshop Superintendent.
- WPC Number 19836 of 2011 filed by S.K.Panigrahi, Lecturer in Civil Engg., VSSUT, Burla, case regarding retention of University quarters during his study leave for Ph.D. at IIT, Kharagpur.
- WPC Number 16456 of 2011 filed by Prashant Kumar Pradhan, Lecturer in Mechanical Engg., VSSUT, Burla regarding retention of University quarters during his study leave for Ph.D. at IIT, Kharagpur.
- WPC Number 19835 of 2011 filed by Arabinda Mohanty, Lecturer in Mechanical Engg., VSSUT, Burla regarding retention of University quarters during his study leave for Ph.D. at IIT, Kharagpur.
- WPC Number 17199 of 2011 filed by S.K.Naimuddin, applicant for the post of Reader in Physics regarding recruitment of faculties in Physics department. The case is under process and the judgement is awaited.
- WPC Number 16461 of 2011 filed by Soumya Darshan Mohanty, applicant for the post of Lecturer in Mechanical Engg. and Manufacturing Science and Engineering regarding recruitment of faculties in Mechanical Engg. and Manufacturing Science and Engineering. The case is under process and the judgement is awaited.
- WPC Number 16064 of 2011 filed by Pramod Kumar Bhoi, Ferro printers, VSSUT, Burla regarding recruitment of non teaching post. The case is under process and the judgement is awaited.
- WPC Number 16069 of 2011 filed by Narendra Kumar Parida, Laboratory Attendant, VSSUT, Burla regarding recruitment of non teaching post. The case is under process and the judgement is awaited.
- WPC Number 16070 of 2011 filed by Ghasiram Mahakur and others, Laboratory Attendant, VSSUT, Burla regarding recruitment of non teaching post. The case is under process and the judgement is awaited.
- WPC Number 16071 of 2011 filed by Basant Kumar Patra, Peon, VSSUT, Burla regarding recruitment of non teaching post. The case is under process and the judgement is awaited.
- WPC Number 32204 of 2011 filed by Prabodh Kumar Das, Mechanic, VSSUT, Burla regarding promotion of mechanic grade-2 and grade-1. The university has not submitted counter affidavit.
- WPC Number 18851 of 2012 filed by Kishore Chandra Pradhan, Work sarkar, VSSUT, Burla regarding appointment in higher position under RA scheme. The case is under process and the judgement is awaited.
- WPC Number 16116 of 2012 filed by Jayaram Chand was an applicant for the post of maintenance engineer. The case is under process and the judgement is awaited.
- WPC Number 3876 of 2014 filed by Prashant Kumar Pradhan, Lecturer in Mechanical Engg., VSSUT, Burla regarding recruitment of faculties where he himself was a

candidate for the post of Reader in Mechanical Engg, and Production Engg. The case is under process and the judgement is awaited.

- WPC Number 5953 of 2013 filed by Dr. Dwiti Krushna Sahu, an applicant for the post of Reader in Chemistry regarding recruitment of faculties in Chemistry department. The university is yet to file the counter affidavit.
- WPC Number 1198 of 2014 filed by Dr. Ashok Mishra, an applicant for the post of Reader in Mathematics regarding recruitment of faculties in Mathematics department. The university is yet to file the counter affidavit.
- WPC Number 5955 of 2013 filed by Dr. Biswajit Mishra, an applicant for the post of Reader in Chemistry regarding recruitment of faculties in Chemistry department. The university is yet to file the counter affidavit.
- WPC Number 21371 of 2014 filed by Sri Nihar Ranjan Debata, an applicant for the post of Controller of Examinations regarding recruitment of officers as Controller of Examinations. The university is yet to file the counter affidavit.
- WPC Number 824 of 2015 filed by Dr. Jayakrushna Moharana, an applicant for the post of Associate professor and Professor in Electrical Engineering and EEE. He is anticipating not to be shortlisted by the university to appear the interview as he possess AMIE qualifications. The university is yet to file the counter affidavit.
- WPC Number 826 of 2015 filed by Dr. Kapileswar Mishra and others, regarding advertisement of the various posts of faculty and officers of the university. Though they are not candidate, they filed in the court to shortlist AMIE candidates to appear the interview. The university is yet to file the counter affidavit.

The following court cases have been filed against the university and subsequently withdrawn:

- WPC Number 18058 of 2011 filed by Rakesh Mohanty, Lecturer in Computer Science and Engg., VSSUT, Burla regarding recruitment of faculties where he himself was a candidate for the post of Reader in Computer Science and Engg, Information Technology and MCA.
- WPC Number 17707 of 2011 filed by Himanshu Sekhar Behera , Lecturer in Computer Science and Engg., VSSUT, Burla regarding recruitment of faculties where he himself was a candidate for the post of Reader in Computer Science and Engg and Information Technology.
- WPC Number 21753 of 2012 filed by Himanshu Sekhar Behera , Lecturer in Computer Science and Engg., VSSUT, Burla regarding recruitment of faculties where he himself was a candidate for the post of Professor, Training and Placement and Professor in MCA.

The following court cases have been filed against the university and disposed subsequently:

- WPC Number 17709 of 2011 filed by Mrs. Shanti Behera, Lecturer in Electrical Engg., VSSUT, Burla regarding recruitment of faculties where she herself was a candidate for the post of Reader in Electrical Engineering and EEE. The case is disposed off and the judgement is in favour of the university.
- WPC Number 16804 of 2011 filed by Dr. Chitta Ranjan Dash, an applicant for the post

of Reader in Mathematics regarding recruitment of faculties in mathematics department. The case is disposed off and the judgement is in favour of the university.

**6.2.6 How does the university ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?**

Mechanisms are in place to address the grievances of students and staff.

**Staff Grievances:**

- Faculty members bring their grievances through the HOD and subsequently to registrar and Vice chancellor.

**Student Grievances:**

- Students grievances are mostly solved at the department level and sometimes it is solved by Dean (SW).

Grievance/suggestion boxes are placed at strategic locations to make the system more transparent. University deals with the grievances in a priority basis depending on the nature of the grievances for better stakeholder relationship.

**6.2.7 Does the university have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

Student feedback is collected, analysed to understand the strength and weakness of the department/faculty. Accordingly, due care are taken by the HOD/Authority.

**6.2.8 Does the university conduct performance audit of the various departments?**

Academic audit is conducted by the university in a regular basis to determine the SWOC analysis of the department.

**6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?**

University is unitary. It does not affiliate any institutions.

**6.2.10 Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.**

We have no affiliated colleges since it is a unitary university set up by Govt. of Odisha. However, we have a University Committee for Perspective Planning (UCPP) where all the Deans and few senior professors are members. The committee is chaired by Vice chancellor. The purpose of UCPP is to plan for the various developmental activities on need and priority basis. All suggestions provided by HODs and Deans are seriously viewed and considered in toto or with some modifications. In this way, top down and the bottom up approach are used to initiate new plans / suggestions.

## **6.3 Faculty Empowerment Strategies**

### **6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff ?**

Efforts are continuously made by the university to enhance the professional development of its human resources by encouraging to attend training programme outside and organize training programmes in the university.

Each department organizes seminars/workshops/FDPs in specialized domain. In addition, the department also organize in-house FDPs by inviting experts in latest development. Also, there is a practice of sending the faculties outside to attend the training programmes. In this way, the university manages the professional development of teaching staff.

Faculty members are also encouraged to get funds from different external funding agency along with providing some grants from TEQIP/university fund. Faculty members are provided with Computer and printers with round the clock leased line 1 GBPS internet connectivity to carry out research work. University subscribes various E-journals for the research and project work of students and faculty members.

University also encourages faculty members to avail the facilities of study leave for pursuing doctoral and post doctoral research activity. Faculty members are deputed under quality improvement programme (QIP) scheme to pursue doctoral/Post graduate programme on a regular basis.

The university has a policy of deputing the faculties to attend national/international conferences /seminars/symposia/FDPs. All the travelling, registration and other expenses to attend the programme and present papers in such programmes are borne by the university. The TEQIP also provides financial assistance to attend short term training programme conducted by AICTE and other universities/IITs.

Training programmes are also conducted for non-teaching staff to enhance their skills in computer education. Technical supporting staffs are also attending short term training courses at NITTTR, NIT etc on a regular basis.

### **6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.**

Self appraisal reports are available for the faculty members and CCR is available for all the non teaching staff. The self appraisal report/CCR are analysed by the Vice chancellor/registrar and corrective measures are suggested for improvement. The self appraisal report and CCR are one of the criteria for promotion to a higher post and sanction of annual increments.

### **6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.**

The following welfare measures are provided to teaching and non-teaching staff. Pension scheme, Provident fund, group insurance, earned leave, medical leave, maternity leave, paternity leave, sabbatical leave, study leave, medical facilities and by providing residence facilities.

However, those who have joined both teaching and non-teaching after 01/01/2005 are entitled to the benefit of new pension scheme.

All regular staff are getting benefit of the above schemes.

#### **6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?**

University is the oldest institution in the state of odisha and going to celebrate its diamond jubilee in the year 2016. This institute distinguishes itself from other institute due to its holistic approach and unique foresighted planning in providing technical education with the state of the art techniques. It has produced more than 25,000 quality engineers who are serving at various key positions in India and abroad. It has its own goodwill so the faculty members of other institutes and universities in the state and outside the state are attracted to be a member of faculty fraternity. They feel themselves as pride to serve the society by joining this university.

#### **6.3.5 Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.**

Yes. The academic cell conducts gender audit. 30% seats are reserved for the girl students. However, there is an increasing trend of girl student in the university. Similarly, the women population is also increasing in the recruitment of faculty and staff.

#### **6.3.6 Does the university conduct any gender sensitization programmes for its faculty?**

Yes. The university is actively involved in sensitizing the community by organizing various workshops and trainings. Each year WOMENS DAY has been celebrated and deserved lady faculty members are honoured.

#### **6.3.7 What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the university faculty?**

At present, university do not have Academic Staff College. However, we are in the process of setting up the same.

### **6.4 Financial Management and Resource Mobilization**

#### **6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**

The university prepares annual budget every year and actual expenses are compared with the budget at the end of the every financial year. Expenditures are incurred based on the annual budget. Resources are also mobilized as per the budget plan. A capital expenditure budget is prepared to monitor the effective use of resources for continual improvement of infrastructure. In

this way, the financial resources are effectively and efficiently used.

**6.4.2 Does the university have a mechanism for internal and external audit? Give details.**

University has a provision to audit the accounts externally. Accounts are being audited by local fund audit and AG audit.

**6.4.3 Are the institution's accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?**

The universities accounts are being audited regularly. There have not been any major audit objections. However, any minor audit objections are complied subsequently. After pointing out the minor objections, the auditor team conducts an exit meeting in the university to take necessary steps for compliance of the same for finalization.

**6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.**

The audited income and expenditure statement of academic and administrative activities for the year 2013-14 by external auditors are enclosed in *Annexure - IV*. However, the audited income and expenditure statement for other three years are already compiled.

**6.4.5 Narrate the efforts taken by the university for resource mobilization.**

The resource mobilization are carried out in following ways:

- Fees collection from the students
- Salary and pension component from Govt. of Odisha (Non-planned)
- Infrastructure development (Buildings, hostels, Laboratory equipments etc.) from Govt. of Odisha (planned)
- External research grants from different funding agencies such as AICTE, UGC, DST, CSIR, Department of IT, etc.
- Funds for QIP Ph.D scholarships, Faculty development programme from MHRD, Govt. of India
- TEQIP grant from MHRD Govt. of India for laboratory upgradation, faculty development, attending conference/seminar/workshop in India and abroad. Funds for finishing schools and skill development programme for students etc. are also covered in this scheme.
- UGC sanction for infrastructure development, laboratory development, construction of new hostel, Post graduate scholarships, etc.
- Alumni donation for development of university
- Infrastructure development from nearby industry such as MCL, VEDANTA, HINDALCO, OPGC, WORKS department (Govt. of Odisha)

**6.4.6 Is there any provision for the university to create a corpus fund? If yes, give details.**

Four funds are maintained by TEQIP @ 2% of the Internal Revenue Generation (IRG) of the



university in four different accounts. These four funds are created from the year 2011-12 till date. Every financial year in each account minimum an amount of Rs. 7.5 lakhs is deposited. These four funds are as follows:

- Corpous fund
- Equipment replacement fund
- Maintenance fund
- Faculty development fund

## **6.5 Internal Quality Assurance System**

### **6.5.1 Does the university conduct an academic audit of its departments? If yes, give details.**

Yes. Academic audit is conducted for all the departments thereby achieving the quality in all spheres. An independent team of different department is formed and sent for department level auditing. It is usually done twice in a year. The following faculty members are involved in conducting academic audit of the departments:

- |   |   |                 |
|---|---|-----------------|
| • Prof. B.B.Pati, Professor, Electrical Engineering | - | Member          |
| • Prof. R.P.Panda, Professor of ENTC                | - | Member          |
| • Prof. J.Rana, Dean (Faculty and Planning)         | - | Member          |
| • Prof. P.K.Hota, Dean (SRIC & CEP)                 | - | Member          |
| • Prof. P.K.Pradhan, Registrar                      | - | Member          |
| • Prof.P.C.Swain, Dean(Student Welfare)             | - | Member          |
| • Prof. S.K.Swain, Dean(Academics)                  | - | Member Convenor |

### **6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?**

After the conduct of academic audit, the Chairman of the team recommends the following:

- Best practices in teaching-learning
- New methodology in teaching
- Importance of industry oriented electives
- Digitization of lecture notes
- Encourages the department to undertake project on sick industries
- To undertake socially relevant projects
- More industrial visits for the students
- Rigorous evaluation and presentation of seminar/project

### **6.5.3 Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

The Head of the department review the teaching-learning process. However, Vice chancellor

gives guidelines to improve teaching-learning process of the department. Course coverage, coverage in laboratories and student feedback are discussed in the departmental meeting and corrective measures are taken. In addition, the Vice chancellor convened meeting in the department to monitor the quality of teaching-learning and suggest new methodology to be adopted in teaching.

**6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

IQAC is formed on 06/01/2015. However, quality assurance is managed and coordinated by academic committee in the direction of Vice chancellor.

**6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the university for implementation?**

Only one meeting is conducted in IQAC. However, IQAC will be strengthened in the near future. The decisions of the IQAC will be implemented in the functioning of the university.

**6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.**

Yes. IQAC have two external members from industries.

- Chairman cum Managing Director (CMD)/ GM Personal Mahanadi Coal Field Limited (MCL), Burla.
- General Manager, HINDALCO, Horakud
- General Manager VEDANTA Limited, Jharsuguda

Although CMD, MCL is recently included in IQAC committee, however, he has nominated one of the senior officials to be the member of university committee to suggest the feasibility and requirement for opening of new B.Tech programme in mining Engineering from the academic session 2015-16.

General Manager VEDANTA is instrumental in sending a proposal to upgrade VSSUT, Burla to Indian Institute Engineering Science and Technology (IEST).

**6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

IQAC yet to conduct the study on the incremental academic growth of students from disadvantaged sections of society. However, at present this is coordinated by head of the department.

### **6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

The following committees review the progress of administrative departments:

- A new committee named University Committee for Perspective Planning (UCPP) has been formed to look after the various issues pertaining to administrative and academic departments and suggest remedial measures thereof. UCPP reviews the entire administration of the university and suggests any further development for day-to-day activities of various sections.
- Dean (SRIC & CEP) is responsible for any research and continuing education activities of the university. SRIC guidelines has been introduced to streamline the entire process of sponsored research and industrial consultancy works.

## **CRITERIA VII: INNOVATIONS AND BEST PRACTICES**

### **7.1 Environment Consciousness**

#### **7.1.1 Does the university conduct a Green Audit of its campus?**

University has taken initiation on green audit of the campus. The forest department has planted trees surrounding the hostel premises. Various activities undertaken by maintenance department of the university from time to time in consultation with horticulture experts that lead to green cover of the university campus and hostels.

Efforts are also being taken to ensure a plastic free campus by effectively reducing the usage of plastics. The awareness related to e-waste and its reduction is achieved through seminars by experts.

#### **7.1.2 What are the initiatives taken by the university to make the campus eco-friendly?**

- Energy conservation
- Use of renewable energy
- Water harvesting
- Check dam construction
- Efforts for Carbon neutrality
- Plantation
- Hazardous waste management
- e-waste management
- Any other (please specify)

Following initiatives are taken by the university to make the campus eco-friendly.

- Energy conservation
- Efforts for Carbon neutrality
- Plantation

#### **Energy conservation**

The university conducts seminars, workshops and competitions to propagate among students and staff eco-friendly practices. Electrical department of the university organized a seminar on Energy Conservation and Electrical Safety to sensitize among the students and staffs regarding conservation of electricity. CFL and low wattage fluorescent lamps are used in the university campus and hostels to save electricity. Efforts have been made to install solar panel in the roof of administrative and hostel buildings.

#### **Efforts for Carbon neutrality**

NSS and our student society/clubs conduct awareness programme about the importance of carbon neutrality and its impact on society. University has taken initiatives to sensitize students and staff members in utilizing the common transport facilities in order to reduce the carbon emission.

Students are encouraged to use bicycles in the campus and hostels.

### **Plantation**

Plantation activities are carried out in the campus and hostels on a regular basis. Seminars are organized to make the students and staff aware of saving the environment and global warming. In the curriculum and syllabus students study a course on environmental engineering. The officials of District forest department are invited to take initiatives for plantation work. They have planted more than 1000 teak tree in the university campus.

## **7.2 Innovations**

### **7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the university.**

The following innovative practices are followed by the university.

- Industry oriented projects in the curriculum
- Departments are actively engaged in consultancy work
- Effective functioning of technology/robotics and other clubs
- Faculties use different teaching methodology in the class room
- University offers open elective and choice based electives
- Signing MOU's with different industries

In addition, we are in the process of converting internal and external from 30:70 to 40:60 where importance will be given to projects in most of the subjects.

This above innovative practices created a positive impact on the functioning of the university.

## **7.3 Best Practices**

### **7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the university.**

The following two best practices are followed in the university.

- A. Non-negotiable academic calendar
- B. Showing answer scripts to students

#### **A. Title of the Practice: Non-negotiable academic calendar**

#### **1. Objectives of the Practice**

The objectives of Non-negotiable academic calendar are as follows:

- To ensure quality education in the university
- To ensure timely conduct of examination and publication of results
- To plan in advance Curricular and extra-curricular activities for the students
- To conduct remedial/bridge/GATE coaching classes for the students
- To conduct Seminars/workshops/symposia/conferences for the faculty and students

- To organize short term training programme/refresher courses for the faculty members

The outcome of all the above activities is to provide good teaching-learning environment in the university. The students have joined their new assignments after completion of their course in time. The other students plan in advance regarding their internship/PG and Ph.D studies.

## **2. The Context**

After due discussion in academic council, the academic calendar has been finalized. Some students are also members of the committee who are allowed to give their opinions and suggestions. The time table committee consisting of all the members from different departments takes lot of initiatives to streamline and prepare the timetable.

Due care has been taken to follow 180 days of working periods excluding examination and holidays. The FDPs arranged in summer and other vacations where faculties from other colleges/universities are invited to participate in the programme. The consultancy work is also carried out beyond working hours.

## **3. The Practice**

This practice is very much successful in our university and in the state of Odisha since 1992. The university is located in the western part of Odisha which has extreme climate in all seasons especially in summer the temperature goes beyond 50 degree Celsius. Similarly, in winter it goes below 5 degree Celsius.

## **4. Evidence of Success**

The success is 100%. We conduct the convocation every year by inviting the eminent persons from industries, scientists and reputed academic institutions. The students are awarded with gold medal, silver medal, graduate and post graduate degrees in time.

## **5. Problems Encountered and Resources Required**

The university operates from 8AM to 5PM in different slots which creates dissatisfaction among the employees. The time table committee takes lot of strain to prepare the time table slot for the laboratory classes. In winter, it is quite difficult for the students and staff to remain present in the university at 8AM in the morning.

### **B. Title of the Practice: Showing answer scripts to students**

#### **1. Objectives of the Practice**

The objectives of showing answer scripts to students are as follows:

- Transparency in evaluation process
- To reduce the workload of examination section after publication of result
- To solve the student grievances immediately at faculty level
- Students may prepare himself/herself in case of failure in the examination
- To ensure continuity in learning process since students will not wait till the

- publication of the result.
- Students get satisfied and involved keenly while showing the answer scripts.

## **2. The Context**

There is a challenge at the faculty level for showing the answer scripts to the students. Faculty members are required to evaluate the answer sheets more accurately while correcting each question. They must prepare in advance model answers carefully before evaluating the answer scripts.

## **3. The Practice**

This is a unique feature of its kind which is implemented in the university. The students are more attracted to take admission in the university due to this transparent practice. This practice discourages favoritism to a single/group of students by the faculty members. It will discourage the fearfulness among the students while publishing results by the university since they were aware of their strengths and weaknesses.

## **4. Evidence of Success**

This practice of showing answer scripts to the students is very popular not only among the students of VSSUT, Burla but also in India at large. All the stakeholders get benefit out of this practice of transparency in examination and evaluation process.

## **5. Problems Encountered and Resources Required**

This practice has created more work pressure among the faculty members of the university. They feel monotonous in evaluating the answer scripts within a short time period.

## EVALUATIVE REPORT OF THE DEPARTMENT

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

1. **Name of the department:** Civil Engineering
2. **Year of Establishment:** 1956
3. **Is the Department part of a School/Faculty of the university?**

The Department is the part of the University.

4. **Names of Programmes / Courses offered (UG, PG, Ph.D., and Integrated Masters; Integrated Ph.D., etc.):**

The department has offered B. Tech in Civil Engineering since its inception. Considering the market demand, faculty strength etc., the department has subsequently offered M. Tech and PhD in Civil Engineering in different specializations one after other. The years of establishment and student strength are as follows:

| Sl. No | Names of Programmes                   | Year of Estt. | Student Strength |       |       |       |       |
|--------|---------------------------------------|---------------|------------------|-------|-------|-------|-------|
|        |                                       |               | 2014-15          | 13-14 | 12-13 | 11-12 | 10-11 |
| 1      | UG (B.Tech)- <b>Civil Engineering</b> | 1956          | 120              | 120   | 60    | 60    | 60    |
| 2      | PG (M.Tech)- <b>Civil Engineering</b> |               |                  |       |       |       |       |
|        | (i)Structural Engg                    | 1976          | 18               | 18    | 18    | 18    | 18    |
|        | (ii)Geo-Technical Engg                | 2012          | 18               | 18    | -     | -     | -     |
|        | (iii)Environmental Engg               | 2012          | 18               | 18    | -     | -     | -     |
|        | (iv)Water Resources Engg              | 1965          | 18               | 18    | 18    | 18    | 18    |
|        | (v)Transportation Engg                | 1977          | 18               | 18    | 18    | 18    | 18    |
| 3      | PhD ( <b>Civil Engg</b> )             | 2010          | 04               | 03    | 06    | NIL   | 02    |

5. **Names of Interdisciplinary courses and the departments/units involved:**

The students of the Civil Engineering Department undertake the following courses offered by other departments of the University in first, second, third and fourth semesters.

| Sl No | Course                       | Semester | Name of the Department |
|-------|------------------------------|----------|------------------------|
| 1     | Mathematics-1                | 1st      | Mathematics            |
| 2     | Physics                      | 1st      | Physics                |
| 3     | Engineering Mechanics        | 1st      | ME                     |
| 4     | Basic Electrical Engineering | 1st      | EE                     |



|    |                              |                 |                         |
|----|------------------------------|-----------------|-------------------------|
| 5  | English for communication    | 1st             | Humanities              |
| 6  | Mathematics-II               | 2nd             | Mathematics             |
| 7  | Chemistry                    | 2nd             | Chemistry               |
| 8  | Programming & Data Structure | 2nd             | Computer Science & Engg |
| 9  | Basic electronics            | 2nd             | ETC                     |
| 10 | Mathematics III              | 3rd             | Mathematics             |
| 11 | OB                           | 3rd             | Humanities              |
| 12 | Object Oriented Programming  | 3rd             | Computer Science & Engg |
| 13 | Mathematics IV               | 4 <sup>th</sup> | Mathematics             |

The department offers the following courses in first and second semester for the students of other departments of the University.

#### 6. Courses in collaboration with other universities, industries, foreign institutions etc.-

The department conducts various short term courses for faculties to enrich their teaching and learning capabilities under faculty development programme. Further, the department also regularly carries out various courses for the students to enhance their learning potential under different programmes like students training programme, student internship programme, workshop, conferences, industrial visit etc. The MoUs to undertake the various courses in Civil Engineering in collaboration with other Universities, Industries and Foreign Institutions are going on and shall be finalized shortly.

#### 7. Details of programmes discontinued, if any, with reasons:

No programme has been discontinued by the department so far.

#### 8. Examination System: Annual/ semester/choice based credit system (programme wise):

The department has implemented Semester based CGPA credit system for UG and PG programme. The details of credit in each semester for both the programme are furnished bellows;

| UG (B.Tech)     |        |
|-----------------|--------|
| Semester        | Credit |
| 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 28     |
| 4 <sup>th</sup> | 28     |
| 5 <sup>th</sup> | 28     |
| 6 <sup>th</sup> | 28     |
| 7 <sup>th</sup> | 28     |
| 8 <sup>th</sup> | 24     |

| PG (M.Tech)     |        |
|-----------------|--------|
| Semester        | Credit |
| 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 15     |
| 4 <sup>th</sup> | 25     |

However the department is going to implement choice based credit system from the academic session 2015-16.

### 9. Participation of the department in the courses offered by other departments:

The department offers following courses for students of all departments in the University.

| Sl No | Courses                    | Semester        | Name of the Department |
|-------|----------------------------|-----------------|------------------------|
| 1     | Env. Science & Engineering | 1 <sup>st</sup> | ME                     |
| 2     | Env. Science & Engineering | 1 <sup>st</sup> | EE                     |
| 3     | Env. Science & Engineering | 1 <sup>st</sup> | ETC                    |
| 4     | Env. Science & Engineering | 1 <sup>st</sup> | EEE                    |
| 5     | Env. Science & Engineering | 1 <sup>st</sup> | PE                     |
| 6     | Env. Science & Engineering | 2 <sup>nd</sup> | CSE                    |
| 7     | Env. Science & Engineering | 2 <sup>nd</sup> | IT                     |
| 8     | Env. Science & Engineering | 2 <sup>nd</sup> | MMT                    |
| 9     | Env. Science & Engineering | 2 <sup>nd</sup> | ChE,                   |
| 10    | Engineering Graphics       | 1 <sup>st</sup> | ME                     |
| 11    | Engineering Graphics       | 1 <sup>st</sup> | EE                     |
| 12    | Engineering Graphics       | 1 <sup>st</sup> | ETC                    |
| 13    | Engineering Graphics       | 1 <sup>st</sup> | EEE                    |
| 14    | Engineering Graphics       | 1 <sup>st</sup> | PE                     |
| 15    | Engineering Graphics       | 2 <sup>nd</sup> | CSE                    |
| 16    | Engineering Graphics       | 2 <sup>nd</sup> | IT                     |
| 17    | Engineering Graphics       | 2 <sup>nd</sup> | MMT                    |
| 18    | Engineering Graphics       | 2 <sup>nd</sup> | ChE,                   |

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):

The sanctioned faculty strength of the department is 40(forty). At present the department has 21 faculties. The University has recently made an advertisement to fill up the remaining vacant posts for smooth running of the department.

| Teaching post | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------|------------|--------|------------------------------|
| Professors    | 06         | 05     | NIL                          |
| Associate     | 13         | 01     | NIL                          |
| Assistant     | 21         | 15     | NIL                          |
| Others        | -          | -      | -                            |

The department has engaged 02 faculties on contractual basis for smooth functioning of the Department. However the vacant posts are advertised and recruitment process is going on.

### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

The department has at present 21 faculties; out of which 12 faculties are having PhD and rest are having M.Tech qualification. Rests are perusing PhD in the department and at other Universities like IITs, NITs.

| Name                           | Qualification            | Designation         | Specialization              | No. of Years of Experience | No. of Ph.D. Students Guided/ Guiding for the last 5 years |
|--------------------------------|--------------------------|---------------------|-----------------------------|----------------------------|--|
| Prof A N Nayak                 | PhD (IITKGP)             | Professor           | Structural Engg             | 26                         | 07   |
| Prof P C Swain                 | PhD (NITW)               | Professor           | Water Resources Engineering | 26                         | 05   |
| Prof P K Pradhan               | PhD (IIT KGP)            | Professor           | Geotechnical Engineering    | 27                         | 06   |
| Prof P K Das                   | PhD (IIT K)              | Professor           | Water Resources Engineering | 27                         | 02   |
| Prof S S Das                   | PhD (IIT KGP)            | Professor           | Transportation Engineering  | 25                         | 02   |
| Dr Chitta Ranjan Mohanty       | PhD (IIT KGP)            | Associate Professor | Environmental Engineering   | 25                         | 04   |
| Dr Ajay Kumar Nayak            | PhD (Univ. of Soton, UK) | Asst. Professor     | Structural Engineering      | 12                         | 01   |
| Dr Rakesh Roshan Dash          | PhD (IIT R)              | Asst. Professor     | Environmental Engineering   | 08                         | NIL  |
| Mrs Sudhira Rath               | MTech (SU)               | Asst. Professor     | Transportation Engineering  | 25                         | NIL  |
| Dr. Saubhagya. Kumar Panigrahi | PhD (IIT KGP)            | Asst. Professor     | Structural Engineering      | 15                         | NIL  |
| Ms Jayanti Munda               | MTech (NITW)             | Asst. Professor     | Geo-technical Engineering   | 04                         | NIL  |
| Mrs Leena Sinha                | M Tech (NITR)            | Asst. Professor     | Structural Engineering      | 02                         | NIL  |
| Mr Parsuram Nayak              | M Tech (NITR)            | Asst. Professor     | Structural Engineeringg     | 02                         | NIL  |
| Dr. Janhabi Meher              | PhD (NIT R)              | Asst. Professor     | Water Resources Engineering | 01                         | NIL  |
| Dr. Bibhuti Bhusan Mukharjee   | PhD (IIT KGP)            | Asst. Professor     | Structural Engineering      | 01                         | 01   |
| Ms Rupashree Ragini Sahoo      | MTech (NIT R)            | Asst. Professor     | Geo-technical Engineering   | 01                         | NIL  |
| Ms Laxmipriya Mohanty          | MTech (NIT R)            | Asst. Professor     | Water Resources Engineering | 01                         | NIL  |
| Mr Rajiv Lochan Sahu           | MTech (NIT R)            | Asst. Professor     | Geo-technical Engineeringg  | 01                         | NIL  |
| Mr.Smruti Sourav Mohapatra     | MTech (NIT R)            | Asst. Professor     | Transportation Engineering  | 01                         | NIL  |
| Dr. Bijan Kumar Roy            | Ph. D. (IIEST, Sibpur)   | Asst. Professor     | Structural Engineering      | 01                         | NIL  |

|                     |               |                     |                        |    |     |
|---------------------|---------------|---------------------|------------------------|----|-----|
| Dr. Bharadwaj Nanda | PhD (IIT Kgp) | Asst. Professor     | Structural Engineering | 06 | NIL |
| Mr. Muna Kalundia   | MTech (IITG)  | Contractual faculty | Structural Engineering | 01 | NIL |
| Rashmi Rekha Giri   | B. Tech       | Contractual faculty | ----                   | 02 | NIL |

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

The department arranges the meeting regularly by calling senior Visiting Fellows, adjunct faculty, and emeritus professors to have an interaction with faculties and students. The list of faculties along with their organization who visited the department is furnished below;

| Sl No | Name                                 | Organization                     |
|-------|--------------------------------------|----------------------------------|
| 1     | Prof. B. M. Das                      | California State University, USA |
| 2     | Prof. M. C. Sahu (Retired Professor) | UCE, Burla                       |
| 3     | Prof. M. S. Rao (Retired Professor)  | UCE, Burla                       |
| 4     | Prof. S. K. Bhattacharyya            | CBRI Roorkee                     |
| 5     | Prof. Arghya Deb                     | IIT Kharagpur                    |
| 6     | Prof. D. K. Baidya                   | IIT Kharagpur                    |
| 7     | Prof. P. K. Pani                     | IGIT Sarang                      |
| 8     | Prof. K. C. Biswal                   | NIT Roukela                      |
| 9     | Prof. M. K. Dash                     | IGIT Sarang                      |
| 10    | Prof. S. K. Das                      | NIT Roukela                      |
| 11    | Prof. B. C. Panda                    | IGIT Sarang                      |
| 12    | Prof. P. K. Parhi                    | CET Bhubaneswar                  |
| 13    | Prof. Bhargab Maitra                 | IIT Kharagpur                    |
| 14    | Prof. S. K. Chand                    | IGIT Sarang                      |
| 15    | Prof. V. R. Desai                    | IIT Kharagpur                    |
| 16    | Prof. P. Sahu                        | Sambalpur University             |
| 17    | Prof. K. Satpathy                    | Sambalpur University             |
| 18    | Prof. R. K. Jha                      | NIT Rourkela                     |
| 19    | Prof. Amlan Das                      | NIT Durgapur                     |
| 20    | Prof. B. Panigrahi                   | OUAT Bhubaneswar                 |
| 21    | Prof. J. P. Behera                   | IGIT Sarang                      |
| 22    | Prof. S. K. Sahu                     | NIT Rourkela                     |
| 23    | Mr. S. K. Dash                       | OSDMA, Odisha                    |

## 13. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Under Graduate - 2%

## 14. Student -Teacher Ratio (program wise):

UG - 16:1 & PG - 13:1

**15. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

| Supporting staff     | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical staff      | 09         | 05     |
| Administrative staff | 01         | 00     |

**16. Research thrust areas as recognized by major funding agencies:**

The faculties and students of the Department conduct major research in the laboratories of the department. The research thrust areas recognized by funding agencies are as follows;

- Structural Engineering: Structural retrofitting, Advanced composite materials, Structural vibrations of plates and shells, Interface Mechanics, Low cost Housing, Structural Health Assessment, Application of soft computing in Civil Engineering, Structural Vibration Control, Fluid structure interaction, Passive vibration control of structures, Uncertainty and reliability, Robust optimization, Concrete technology,
- Water Resources Engineering and Management, Fluvial hydraulics, Hydrological study using GIS, Application of Artificial Intelligence using ANN and genetic algorithm, Open channel hydraulics and hydrology, Ground water contamination, Porous media flow, Flow analysis of compound meandering channel
- Geo-technical Engg: Bearing capacity and settlement prediction, Soil stabilization
- Transportation Engineering.: Traffic flow modeling, Transport system planning, Public transportation system.
- Environmental Engineering: Waste water treatment, Water treatment

The department generates revenues from consultancies with respect to the laboratories according to the specializations mentioned above.

**17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

| Sl. No | Name of Faculty                          | Name of project  | Funding Agency | Grants Received (Rs.) |
|--------|--|--|----------------|-----------------------|
| 1      | Prof. A. N. Nayak<br>Dr. C. R. Mohanty   | Characterization of LWC using ash cenosphere                       | DST (2015)     | 13,23,000             |
| 2      | Dr. C. R. Mohanty<br>Dr. R. R. Dash      | Field trials of low cost fluoride filter                           | DST (2014)     | 12,78,000             |
| 3      | Prof. P. K. Pradhan<br>Dr. C. R. Mohanty | MODROB<br>( Env. Engg Lab)   | AICTE (2014)   | 18,04,000             |
| 4      | Prof. P. C. Swain                        | Development of fuzzy logic and neural network technology for flood | AICTE          | 16 ,00,000            |

|   |                   |  |        |           |
|---|-------------------|--|--------|-----------|
|   |                   | mitigation   |        |           |
| 5 | Prof. P. C. Swain | Flexible pavement maintenance using expert system                                | AICTE, | 10,00,000 |
| 6 | Prof. P. C. Swain | Flood forecasting in river mahanadi using hydrological and mathematical modeling | AICTE, | 10,00,000 |
| 7 | Prof. P. C. Swain | Installation of automatic weather station  | AICTE, | 5,00,000  |
| 8 | Prof. P. C. Swain | Development of cad laboratory  | AICTE, | 6,00,000  |

**18. Inter-institutional collaborative projects and associated grants received:**

**a) National collaboration:**

The department is already involved in conducting collaborative projects with CSIR-CBRI Roorkee, IIT Kharagpur, IIT Bhubaneswar etc. In order to boost more collaborative research projects, Department is in a process to sign MoU with technical institutions and organization like Mahanadi Coalfields Limited, Sambalpur, HINDALCO etc.

**b) International collaboration:**

The Department is also trying hard to initiate collaborative projects with global organization.

**19. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

| Sl. No | Name of Faculty                        | Name of Project                              | National/<br>Int. funding<br>Agency | Grants Received<br>(Rs.) |
|--------|--|--|-------------------------------------|--------------------------|
| 1      | Prof. A. N. Nayak<br>Dr. C. R. Mohanty | Characterization of LWC using ash cenosphere | DST (2015)                          | 13,23,000                |
| 2      | Dr. C. R. Mohanty<br>Dr. R. R. Dash    | Field trials of low cost fluoride filter     | DST (2014)                          | 12,78,000                |

**20. Research Centre /facility with:**

- **State recognition:** The Government of Odisha has recognized the department as a nodal center for PMGSY programme. The department is keenly involved in consultancy works offered by various state Govt. agencies like Public Works Department (PWD), Rural Water Supply & Sanitation Department (RWSS) etc and numerous private parties.
- **National recognition:** The Department is also recognized nationally in the research areas such as design of retrofitting of structures, earthquake resistant structures, and the areas pertaining to environmental engineering. The department accepts the challenges in

solving various critical problems from National level Industry like NALCO, NTPC, HINDALCO, NHPC, etc.

- **International recognition:** The department is also actively engaged in the research in geo-technical engineering area with California State University, USA. The department is also actively considering the proposals received from other international organization to sign MoUs to initiate both faculty and student interchange programs. Many faculty members of the department are acting as reviewers of various International Journals.

## 21. Special research laboratories sponsored by / created by industry or corporate bodies:

The department is actively engaged in conducting research and consultancies in its well-equipped laboratories. To augment the laboratories further to cope-up with global institutions, organization like MCL, HINDALCO, L&T have been in principle agreed to upgrade the laboratories of the department. The department is preparing MoUs, which shall be signed with industries.

## 22. Publications:

The faculties have published 95 numbers of papers in the journals and 99 numbers in conferences. The detail number of publications of each faculty is furnished below;

### a) Publication per faculty:

| Name of the faculty          | Publication |               |                        |               |
|------------------------------|-------------|---------------|------------------------|---------------|
|                              | Journal     |               | Conference proceedings |               |
|                              | National    | International | National               | International |
| Prof. A. N. Nayak            | 07          | 06            | 10                     | 05            |
| Prof. P. C. Swain            | 08          | 07            | 12                     | 08            |
| Prof. P. K. Pradhan          | 04          | 15            | 13                     | 03            |
| Prof. P. K. Das              | 06          | 02            | 10                     | 04            |
| Prof. S S. Das               | 04          | 04            | 05                     | 05            |
| Dr. C. R. Mohanty            | 01          | 08            | 05                     | 06            |
| Mrs. Sudhira Rath            | 01          | 03            | 02                     | 01            |
| Dr. S. K. Panigrahi          | 02          | 0             | 07                     | 0             |
| Dr. A. K. Nayak              | 0           | 10            | 09                     | 11            |
| Dr. R.R. Dash                | 02          | 07            | 05                     | 09            |
| Mr. P. Nayak                 | 0           | 01            | 0                      | 0             |
| Dr. Janhabi Meher            | 01          | 01            | 0                      | 02            |
| Dr. Bibhuti Bhusan Mukharjee | 0           | 04            | 0                      | 0             |
| Ms. Rupashree Ragini Sahoo   | 0           | 0             | 01                     | 01            |
| Ms. Laxmipriya Mohanty       | 0           | 02            | 04                     | 0             |
| Mr. Smruti Sourav Mohapatra  | 03          | 03            | 01                     | 04            |
| Mr. Bijan Kumar Roy          | 0           | 05            | 0                      | 02            |
| Dr. Bharadwaj Nanda          | 04          | 07            | 02                     | 07            |

- Number of papers published in peer reviewed journals (national / international)

- Monographs: NIL
- Chapter in Books: 15
- Books Edited: 03
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) NIL
- Books with ISBN/ISSN numbers with details of publishers: NIL
- Citation Index – range / average : 1-150
- SNIP : NIL
- SJR : NIL
- Impact Factor – range / average: 0.1-4.5
- h-index : NIL

### 23. Details of patents and income generated:

Department faculties are involved in project research work with Institutes like IIT Kharagpur, IIT Bhubaneswar, IEST Shibpur, West Bengal, NIT Rourkela, etc. Few of the faculties are in a process of submitting patents.

### 24. Areas of consultancy and income generated:

Total departmental income in five years Rs. 46, 65,231.

The department generates major revenues from the following areas and the year-wise income generation is as follows:

| SL.No | Areas                          | Income (Rs. In Thousands) |         |         |         |         |
|-------|--------------------------------|---------------------------|---------|---------|---------|---------|
|       |                                | 2013-14                   | 2012-13 | 2011-12 | 2010-11 | 2009-10 |
| 1     | Concrete Lab                   | 413.4                     | 339.8   | 530.4   | 651.8   | 254.8   |
| 2     | Structural Engineering Lab     | 85.5                      | 112.1   | 7.5     | 27.8    | 85.3    |
| 3     | Geotechnical Engineering Lab   | 314.2                     | 292.5   | 455.6   | 234.7   | 137.05  |
| 4     | Transportation Engineering Lab | 303.5                     | 126.2   | 139.2   | 44.04   | 15.85   |
| 5     | Environmental Engineering Lab  | 24.5                      | 12.0    | 38.15   | 9.5     | 9.9     |

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:

Department faculties are visiting both national / International laboratories / institutions like CSIR-CBRI Roorkee, IIT Kharagpur, IIT Bhubaneswar, IIT Kanpur, IIT Mumbai, IEST Shibpur, West Bengal, NIT Rourkela, University of Birmingham (UK), University of New Southwales, Australia, Hong Kong Polytechnic, and University of Wollongong, Norway.



| <b>Name of faculty</b> | <b>Nationally / International laboratories visited</b>                                      |
|------------------------|---|
| Prof. A. N. Nayak      | University of Birmingham (UK)<br>University of New Southwales, Australia                    |
| Prof. P. K. Pradhan    | Geotechnical Engineering Laboratory, IIT Kharagpur  |
| Prof. P.C. Swain       | University of Wollongong, Norway  |
| Prof. P. K. Das        | Water Recourses Engg. Lab, IIT Kanpur   |
| Prof. S. S. Das        | Transportation Engg. Lab, IIT Kharagpur   |
| Dr. C. R. Mohanty      | Chemical Engg., IIT Kharagpur   |
| Dr. R. R Dash          | Env. Engg. Lab, IIT Roorkee   |
| Dr. S. K. Panigrahi    | Heavy testing Laboratory, CBRI, Roorkee<br>Structural Engineering Laboratory, IIT Kharagpur |
| Dr. J. Meher           | Water Recourses Engg. Lab, NIT Rourkela   |
| Dr. B. B. Mukherji     | Structural Engineering Laboratory, IIT Kharagpur  |
| Mr. S.S. Mohapatra     | Hong Kong Polytechnic   |
| Dr. B. Nanda           | Structural Engineering Laboratory, IIT Kharagpur  |

## 26. Faculty serving in:

### a) National committees:

| <b>Name of Faculty</b>  | <b>Serving in following National committees</b>   |
|---|---|
| Dr. A. N. Nayak   | <ul style="list-style-type: none"> <li>• State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member of State Level Experts Committee (SEAC) constituted by Government of Odisha to review the infrastructural developmental activities in the State of Odisha</li> <li>• Fellow of Institution of Engineers</li> <li>• Life member of Indian Association for Structural Engineers</li> <li>• Life member of Indian Concrete Institute</li> </ul>   |
| Prof. P. K. Pradhan   | <ul style="list-style-type: none"> <li>• State Resource Person under National Programme for Capacity Building of Engineers in Earthquake risk Management (NPCBEERM), Ministry of Home Affairs, Govt. of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, Steering Committee in Planning Sambalpur &amp; Jharsuguda Cities</li> <li>• Member Expert Committee, AICTE &amp; UGC</li> <li>• Member, Building Committee &amp; Board of Studis (Engg) Sambalpur University</li> </ul> |
| Prof. P.C. Swain<br>Prof. P. K. Das<br>Prof. S. S. Das<br>Dr. C. R. Mohanty<br>Dr. R. R. Dash<br>Dr. A. K. Nayak<br>Dr. S. K. Panigrahi | <ul style="list-style-type: none"> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> <li>• Member, State Technical Agency, PMGSY, Govt. Of India</li> </ul>           |

**b) International committees:**

Many faculties of our department are included in various committees in both national and international conferences.

**c) Editorial Boards:**

Prof. A. N. Nayak: International Journal of Architecture and Infrastructure Planning and International Journal of Landscape Planning and Architecture

Prof. P. C. Swain: Guest Editor- International Journal of Technology Management (IJTM),

**d) Any other (please specify):**

(i) Dr. A. N. Nayak: Reviewer in Journal of Bridge Engineering, ASCE and Journal of Sound and Vibration, Elsevier.

(ii) Prof. P. K. Pradhan- Reviewer of Journals namely, Geotech. & Geoenv Engg, ASCE, Journal of Sound & Vibrations, Elsevier, Soil Dynamics & Earthquake Engg, Elsevier, Geotech. & Geological Engg, Spinger, Indian Geotech. Journal, Int. Jr. of Earth Science & Engg. and Journal of Institution of Engineers (India)

(iii) Dr. C. R .Mohanty: Member, State Level Expert Appraisal Committee (SEAC), Odisha.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

| SL.No | Faculty recharging strategies        | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|-------|--------------------------------------|---------|---------|---------|---------|---------|
| 1     | Refresher / STC/orientation programs | 3       | 9       | 8       | 5       | 21      |
| 2     | Workshops                            | 3       | 14      | 10      | 8       | 7       |
| 3     | Training programs                    | 2       | 5       | 7       | 7       | 2       |
| 4     | Any other programs/conference        | 4       | 7       | 5       | 8       | 4       |

**28. Student projects**

**a) Percentage of students who have done in-house projects including inter departmental/programme: 100%**

**b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:**

Some students do project with other Institutes and Laboratories having a guide that is compulsory in their parent Institute - 29%

**29. Awards / recognitions received at the national and international level by**

- **Faculty:** 24
- **Doctoral / post doctoral fellows:** 12
- **Students:** 186

| Sl no | Name                | Year | Award  |
|-------|---------------------|------|--|
| 1     | Prof.A.N.Nayak      | 2000 | R. J. Antia Memorial Medal                                       |
| 2     | Prof.A.N.Nayak      | 2013 | Sayed Mumtaz Ali Memorial Award                                  |
| 3     | Prof.A.N.Nayak      | 2014 | Institution of Engineers Award                                   |
| 3     | Prof.P.K.Pradhan    | 1998 | Madhaba Chandra Jena Memorial Running Shield                     |
| 4     | Prof.P.K.Pradhan    | 1994 | Certificate of Merit   |
| 5     | Prof.P.K.Pradhan    | 1999 | Bana Bihari Mohanty Memorial Award                               |
| 6     | Prof.P.K.Pradhan    | 2005 | Sir Arthur Cotton Memorial Prize                                 |
| 7     | Prof.P.K.Pradhan    | 2007 | The Brij Mohan Lal Memorial Prize                                |
| 8     | Prof.P.K.Pradhan    | 2007 | Santok Singh Memorial Gold Medal                                 |
| 9     | Prof.P.K.Pradhan    | 2011 | M N Bhuyan Memorial Award  |
| 10    | Prof. P. C. Swain   | 1995 | Title of Chartered Engineer (India)                              |
| 11    | Prof. P. C. Swain   | 2000 | Best Partitpant Award  |
| 12    | Prof. P. C. Swain   | 2000 | Bana Bihari Mohanty Memorial Award                               |
| 13    | Prof. P. C. Swain   | 2002 | Bana Bihari Mohanty Memorial Award                               |
| 14    | Prof. P. C. Swain   | 2002 | Certificate of Merit   |
| 15    | Prof. P. C. Swain   | 2007 | Letter of Appreciation, Office of Municipal Council, Sambalpur   |
| 16    | Prof. P. C. Swain   | 2009 | Certificate of Appreciation, Blood Bank                          |
| 17    | Prof. P. C. Swain   | 2010 | Appreciation Certificate by Prajapita Brahma Kumaris             |
| 18    | Prof. P. K. Das     | 1991 | Gold Medal in Paper presentation in Orissa Engg. Congress        |
| 19    | Prof. P. K. Das     | 1991 | Certificate of Merit   |
| 20    | Prof. P. K. Das     | 1993 | DAAD Scholarship for MS program at Karlshure University, Germany |
| 21    | Prof. P. K. Das     | 2006 | ACC Runners up prize in Eastern zone                             |
| 22    | Dr. S. K. Panigrahi | 2004 | Best Warden Award, NIT Hamirpur                                  |
| 23    | Mrs. Leena Sinha    | 2010 | Institute Gold Medal   |
| 24    | Mr. S. S. Mohapatra | 2013 | Institute Silver Medal   |

**30 Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

| Sl no | Name of the Seminars/ Conferences/Workshops               | Source of funding | Date of seminar          | Coordinators                           |
|-------|---|-------------------|--------------------------|--|
| 1.    | National Workshop on Recent Advances in Civil Engineering | MCL & TEQIP       | 25/10/2014 to 26/10/2014 | Dr. C.R.Mohanty<br>Dr. S. K. Panigrahi |
| 2.    | National Workshop on Road                                 | TEQIP             | 6/02/2015 to             | Dr. S. S. Das                          |

|    |   |                                |                          |                                      |
|----|---|--------------------------------|--------------------------|--------------------------------------|
|    | Safety Audit  |                                | 07/02/2015               | Mr. S. S. Mohapatra                  |
| 3. | National Conference in Recent Advances in Mechanics and Materials | Institute                      | 25/02/2012 to 26/02/2012 | Prof. A. N. Nayak<br>Dr. A. K. Nayak |
| 4. | Refresher course on Design of Steel Structures using IS:800-2007  | AICTE                          | 18/06/2012 to 01/07/2012 | Prof. A. N. Nayak<br>Dr. S. K. Patro |
| 5. | Seminar on Hydrological Information System                        | WR Department, Govt. of Odisha | 21/10/2011               | Prof. P. C. Swain                    |

### 31. Code of ethics for research followed by the departments:

All the registered Ph.D research works carried out under a supervisor has a Doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinized by a plagiarism software for any unfair means adopted. The M.Tech and B.Tech thesis are scrutinized by the concerned guide and reviewed by the academic committee.

### 32. Student profile programme/course wise:

The students who undertake the B. Tech programme in the department are being selected from IIT-JEE main merit list conducted by CBSE. The lateral entry students who undertake the B. Tech programme in the department are being selected from OJEE merit list. The students who undertake the M. Tech programme in the department are being selected from a written examination followed by a personal interview. Students having GATE score get scholarship. If any seat at PG level is found to be lying vacant, the seats are being offered to non-gate students strictly on merit basis.

| Name of the Course/programme UG | Applications received | Selected | Enrolled |    | Pass percentage |
|---------------------------------|-----------------------|----------|----------|----|-----------------|
|                                 |                       |          | *M       | *F |                 |
| B.Tech (2014-15)                | IIT-JEE(Main)         | 117      | 79       | 38 | --              |
| B.Tech (2013-14)                | IIT-JEE(Main)         | 112      | 49       | 15 | --              |
| B.Tech (2012-13)                | OJEE                  | 68       | 51       | 17 | --              |
| B.Tech (2011-12)                | OJEE                  | 67       | 50       | 17 | --              |
| B.Tech (2010-11)                | OJEE                  | 65       | 52       | 13 | 83              |

\*M = Male \*F = Female

| Name of the Course/programme PG | Applications received | Selected | Enrolled |    | Pass percentage |
|---------------------------------|-----------------------|----------|----------|----|-----------------|
|                                 |                       |          | *M       | *F |                 |
| M.Tech(2014-15)                 | 204                   | 86       | 30       | 56 | --              |
| M.Tech (2013-14)                | 76                    | 23       | 11       | 12 | --              |

|                  |    |   |   |   |    |
|------------------|----|---|---|---|----|
| M.Tech(2012-13)  | 49 | 8 | 4 | 4 | 75 |
| M.Tech(2011-12)  | 10 | 4 | 2 | 2 | 75 |
| M.Tech (2010-11) | -  | - | - | - | -  |

\*M = Male \*F = Female

| Name of the Course/programme | Applications received | Selected | Enrolled |     | Pass percentage |
|------------------------------|-----------------------|----------|----------|-----|-----------------|
|                              |                       |          | *M       | *F  |                 |
| PhD (2014-15)                | 04                    | 04       | 02       | 02  | ---             |
| PhD (2013-14)                | 03                    | 03       | 02       | 01  | ---             |
| PhD (2012-13)                | 06                    | 06       | 05       | 01  | ---             |
| PhD (2011-12)                | NIL                   | NIL      | NIL      | NIL | ---             |
| PhD (2010-11)                | 02                    | 02       | 01       | 01  | ---             |

### 33. Diversity of Students:

Being a State Government run University, the students from the state of Odisha are only eligible to undertake the B. Tech & M.Tech programme in the department. Only few students pursue their B.Tech programme in the department from North-East states of the country as a part of student exchange programme.

| Name of the Course UG | % of students from the same University | % of students from other Universities within State | % of students from other Universities outside State | % of students from abroad |
|-----------------------|--|--|---|---------------------------|
| 2014-15               | NIL                                    | 98   | 2   | NIL                       |
| 2013-14               | NIL                                    | 98   | 2   | NIL                       |
| 2012-13               | NIL                                    | 97   | 3   | NIL                       |
| 2011-12               | NIL                                    | 97   | 3   | NIL                       |
| 2010-11               | NIL                                    | 97   | 3   | NIL                       |

| Name of the Course PG | % of students from the same University | % of students from other Universities within State | % of students from other Universities outside State | % of students from abroad |
|-----------------------|--|--|---|---------------------------|
| 2014-15               | 06                                     | 94   | NIL   | NIL                       |
| 2013-14               | 09                                     | 91   | NIL   | NIL                       |
| 2012-13               | NIL                                    | 100  | NIL   | NIL                       |
| 2011-12               | NIL                                    | 100  | NIL   | NIL                       |
| 2010-11               | NIL                                    | 100  | NIL   | NIL                       |

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Apart from good percentage of placement of the students in the campus, the department also

encourages the students for off-campus examinations like ICS, IES, GATE etc.

| Session | GATE |
|---------|------|
| 2014-15 | 15   |
| 2013-14 | 14   |
| 2012-13 | 08   |
| 2011-12 | 22   |
| 2010-11 | 06   |

### 35. Student progression:

| Student progression              | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG                         | 5                  |
| PG to M.Phil.                    | NIL                |
| PG to Ph.D.                      | 2                  |
| Ph.D. to Post-Doctoral           | NIL                |
| <b>Employed</b>                  |                    |
| Campus selection                 | 74%                |
| Other than campus recruitment    | 14%                |
| Entrepreneurship/Self-employment | NIL                |

### 36. Diversity of staff:

University encourages diversity in its faculty recruitment. University publicizes open advertisement in national and local newspapers. It is too displayed in the university website along with various electronics media. Faculty from all over the country applies for various posts. Duly constituted selection committee selects for different posts in a transparent manner.

|  |       |
|--|-------|
| Percentage of faculty who are graduates of the same university                   | 23.81 |
| Percentage of faculty who are graduates from other universities within the State | 61.91 |
| Percentage of faculty who are graduates from universities from other States      | 14.28 |
| Percentage of faculty who are graduates from universities outside the country    | NIL   |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 04**

**38. Present details of departmental infrastructure facilities with regard to**

- a) **Library:** One (316 books)
- b) **Internet facilities for staff and students:** YES
- c) **Total number of class rooms :** 05
- d) **Class rooms with ICT facility:** Yes

e) **Students' & Research laboratories: 08**

**CONCRETE TESTING LAB**

| Sl.No. | Equipment' Name           | No. |
|--------|---------------------------|-----|
| 1      | Slump test                | 2   |
| 2      | Compaction factor test    | 1   |
| 3      | Flow table                | 1   |
| 4      | Concrete mixture          | 1   |
| 5      | Rebound Hammer            | 1   |
| 6      | Ultrasonic Pulse Velocity | 1   |
| 7      | Flexural testing machine  | 1   |

**STRUCTURAL ENGINEERING LAB**

| Sl.No. | Equipment' Name                                 | No. |
|--------|---|-----|
| 1      | Universal Testing Machine (Computer controlled) | 1   |
| 2      | Three Hinged Arch                               | 1   |
| 3      | Two Hinged Arch                                 | 1   |
| 4      | Maxwell Reciprocal Theorem                      | 1   |
| 5      | Redundant Truss                                 | 1   |
| 6      | Loading frame of different jack capacity        | 1   |

**TRANSPORTATION LAB**

| Sl.No. | Equipment' Name                                  | No. |
|--------|--|-----|
| 1      | Los angle abrasion testing machine               | 1   |
| 2      | Aggregate impact testing machine                 | 1   |
| 3      | Ring & ball apparatus                            | 1   |
| 4      | Ductility testing machine                        | 1   |
| 5      | penetrometre                                     | 1   |
| 6      | Fire and flash point apparatus                   | 1   |
| 7      | Aggregate crushing apparatus                     | 1   |
| 8      | Pycnometer                                       | 3   |
| 9      | Film stripping device                            | 1   |
| 10     | Length gauge                                     | 2   |
| 11     | Thickness gauge                                  | 2   |
| 12     | Water absorption & specific gravity test machine | 1   |
| 13     | Marshall stability & compaction test machine     | 1   |
| 14     | Extractor frame universal                        | 1   |
| 15     | Centrifugal extractor                            | 1   |
| 16     | Electronic weighing machine                      | 2   |

**GEOTECHNICAL ENGINEERING LAB**

| Sl. No. | Equipment' Name                 | No. |
|---------|---------------------------------|-----|
| 1       | Hydrometer                      | 6   |
| 2       | Liquid and Plastic limit device | 6   |
| 3       | Shrinkage limit apparatus       | 4   |

|    |                             |    |
|----|-----------------------------|----|
| 4  | Curt cutter apparatus       | 6  |
| 5  | Sand pouring cylinder       | 3  |
| 6  | Direct shear apparatus      | 1  |
| 7  | Tri-axial shear apparatus   | 1  |
| 8  | Vane shear apparatus        | 1  |
| 9  | Permeability apparatus      | 1  |
| 10 | Air tight container         | 20 |
| 11 | Compaction test apparatus   | 1  |
| 12 | Unconfined compaction test  | 1  |
| 13 | Electronic weighing balance | 1  |
| 14 | CBR Test                    | 1  |

### ENVIRONMENTAL ENGINEERING LAB

| Sl.No. | Equipment' Name            | No. |
|--------|----------------------------|-----|
| 1      | B.O.D incubator shaker     | 1   |
| 2      | Jar testing apparatus      | 1   |
| 3      | Autoclave                  | 2   |
| 4      | Desiccators                | 1   |
| 5      | Colony counter             | 1   |
| 6      | Oven                       | 1   |
| 7      | Spectro photo meter        | 1   |
| 8      | Electronic balance         | 1   |
| 9      | Conical flash & volumetric | 1   |
| 10     | Measuring cylinder         | 1   |
| 11     | Reagent bottle with cup    | 1   |

### WATER RESOURCES ENGINEERING LAB

| Sl. No. | Equipment  | Number                      |
|---------|--|-----------------------------|
| 1       | DGPS(differential global positioning system)       | 1                           |
| 2       | PVC Pipe testing apparatus                         | 1                           |
| 3       | Automatic Raingauge (weighing type and float type) | 1 each                      |
| 4       | Symon's Raingauge                                  | 1                           |
| 5       | Open Channel Flumes                                | 2 large ,1 small            |
| 6       | Automatic Weather System                           | 1                           |
| 7       | Pipe friction apparatus                            | 1                           |
| 8       | Venturimeter                                       | 1                           |
| 9       | Orificemeter                                       | 1                           |
| 10      | Metacentric Height Apparatus                       | 1                           |
| 11      | Pitot tubes  | 5 cylindrical,5 spherical   |
| 12      | Current meter                                      | 1 cup type,1 propeller type |
| 13      | Piezometer   | 3                           |
| 14      | Reynold's Apparatus                                | 1                           |
| 15      | Bernoulli's Apparatus                              | 1                           |



## SURVEYING LAB

| Sl.No. | Equipment' Name                    | No. |
|--------|------------------------------------|-----|
| 1      | Optical Square                     | 10  |
| 2      | Prismatic Compass                  | 6   |
| 3      | Surveyor Compass                   | 1   |
| 4      | Plane Table with stand accessories | 6   |
| 5      | Dumpy level with stand             | 6   |
| 6      | Auto level                         | 1   |
| 7      | Transit theodolite                 | 6   |
| 8      | Total Station                      | 1   |
| 9      | Metric Chain (30mtr)               | 6   |
| 10     | Metric Chain (20mtr)               | 4   |
| 11     | Metric Tape (30 meter)             | 8   |
| 12     | Steel Tape (30 meter)              | 8   |
| 13     | Ranging Rod (dia 30mm)             | 30  |
| 14     | Arrows                             | 198 |

### 39. List of doctoral, post-doctoral students and Research Associates

#### a) From the host institution/university

| Name of doctoral students | Year of award |
|---------------------------|---------------|
| M. C. Sahu                | 1980          |
| M. S. Rao                 | 1981          |
| A. P. Mishra              | 1982          |
| C. S. Sahu                | 1985          |
| N. K. Pattanayak          | 1985          |
| J. Pradhan                | 1999          |

#### b) From other institutions/universities

| Name of doctoral students  | Year of award |
|----------------------------|---------------|
| Dr. Shailesh K. Srivastava | 2008          |
| Dr. Kahnu Charan Sahu      | 2011          |
| Dr. H. J. Shiv Prasad      | 2012          |
| Dr. Rabindra Kuumar Kar    | 2012          |
| Dr. Dillip Kumar Ghose     | 2013          |

### 40. Number of post graduate students getting financial assistance from the university.

| Session | Name of scholarship | Number of students |
|---------|---------------------|--------------------|
| 2014-15 | GATE & TEQIP        | 21 and 4           |
| 2013-14 | GATE & TEQIP        | 6 and 5            |
| 2012-13 | GATE & TEQIP        | NIL and 7          |
| 2011-12 | GATE & TEQIP        | NIL and 1          |
| 2010-11 | GATE                | NIL                |

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:**

- The department assesses the needs of the development of new programme by presenting the same before the departmental faculty meeting. The views of the faculty members based on their previous academic and industrial experience are sought by conducting mind-boggling discussions.
- Then departmental committee is constituted to ascertain the need and scope of the programme considering the market demand, status of the programme in the institutions already offering (both reputed institutions & private institutions), opinion from distinguished industry personalities, alumni etc.
- Based on the recommendation of the committee, detailed study on strength of the department to offer this programme is conducted.
- Then, a draft curriculum and syllabus is prepared by a committee comprising of faculty members with specialization in the subject programme.
- The draft curriculum is subjected to elaborate discussions in the faculty meeting for fine tuning and subsequent finalization.
- After approval from department, the draft is presented in the “Board of Studies”.
- After the approval from the Academic Council and the Board of Management the programme is offered in the Department

**42. Does the department obtain feedback from:**

**a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- Faculties are directly involved in the preparation of syllabus, teaching learning process and evaluation.
- In the regular meetings chaired by HOD, feedback from staffs and students is obtained to further improve the curriculum and teaching learning process.
- Faculty members also represent in Board of studies and Academic council to express their feedback on both curriculum and teaching-learning process.
- Department level faculty meeting is conducted prior to Board of studies to get a feedback from faculty on curriculum, syllabus and teaching-learning process.
- Any modifications suggested by the faculty are scrutinized and accordingly appraised in the board of studies for its approval.
- Departmental Modernization Committee reviews the question paper setting

process and evaluation of answer scripts. Any discrepancies found are appraised to the concerned faculty through Dean / HOD.

**b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The students are given opportunity to express their views on curriculum, syllabus and teaching-learning process.
- The students give their feedback at regular intervals about the course content, teaching method and evaluation process.
- The student's feedback is considered in the performance appraisal scoring system (PASS) of the individual faculty.
- After the student feedback, if required sometimes faculties are interchanged so that senior and junior faculties are in mixed proportion in every class.
- If the feedback of a faculty is not encouraging, he/she is counseled by the senior faculty, HOD and Dean.
- The student feedback has an impact on the Faculty Performance.
- The students' feedback on Curriculum, Teaching learning and Evaluation are also discussed in the appropriate forums like Department faculty meeting, Board of Studies, and Academic council.
- Based on the students' feedback, the curriculum and learning process is revised and revamped.

**c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

- The Department conducts separate regular meeting consisting of each stakeholders like staff, students, alumni, parents, employers and look into these matters. Yearly two separate meetings of each of the stakeholders are conducted to get their inputs. The suggestions are incorporated as improvement / modification in the curriculum.
- Informal discussions are also made with alumni who completed their higher studies to get the input for the improvement of curriculum.
- Sometimes feedbacks from industries are collected through emails.

**43. List the distinguished alumni of the department (maximum 10)**

The department has produced many distinguished alumni since its inception. The list of few is presented here.

| Name                      | Designation                         | Organization                     |
|---------------------------|-------------------------------------|----------------------------------|
| Prof. Braja M. Das        | Professor                           | California State University, USA |
| Er. Nalini Ranjan Pradhan | EIC cum Secretary, Works Department | Govt. of Odisha                  |
| Er. Om Prakash Patel      | Enggr in chief, Works Department    | Govt of Odisha                   |
| Er. Bharat Chandra Behera | EIC, Rural Works                    | Govt. of Odisha                  |
| Er. A.K. Panigrahi        | Chief Engg., Works Department       | Govt of Odisha                   |
| Er. Prabeer Pradhan       | Enggr in chief ,R & D               | Govt of Odisha                   |
| Er. Shridhar Behera       | EIC, Building                       | Govt. of Odisha                  |
| Er. Sukadeb Meher         | EIC, Building                       | Govt. of Odisha                  |
| Er. Subhendu Roy          | CMD, OBCC                           | Govt. of Odisha                  |
| Er. Bijan Behera          | Chief Engineer, Roads               | Govt. of Odisha                  |
| Er. Sudhakar Patri        | Chief Engineer, Water Resources     | Govt. of Odisha                  |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

| Sl no | Name of the experts/<br>Designation | Organization         | Programmes                |
|-------|-------------------------------------|----------------------|---------------------------|
| 1     | Prof. S. K. Bhattacharyya           | CBRI Roorkee         | National Conference       |
| 2     | Prof. Arghya Deb                    | IIT Kharagpur        | National Workshop         |
| 3     | Prof. D. K. Baidya                  | IIT Kharagpur        | National Workshop         |
| 4     | Prof. P. K. Pani                    | IGIT Sarang          | Special Lecture           |
| 5     | Prof. K. C. Biswal                  | NIT Roukela          | Special Lecture           |
| 6     | Prof. M. K. Dash                    | IGIT Sarang          | Special Lecture           |
| 7     | Prof. S. K. Das                     | NIT Roukela          | Special Lecture           |
| 8     | Prok. B. C. Panda                   | IGIT Sarang          | Staff Development Program |
| 9     | Prof. P. K. Parhi                   | CET Bhubaneswar      | Staff Development Program |
| 10    | Prof. Bhargab Maitra                | IIT Kharagpur        | National Workshop         |
| 11    | Prof. S. K. Chand                   | IGIT Sarang          | Special Lecture           |
| 12    | Prof. V. R. Desai                   | IIT Kharagpur        | National Workshop         |
| 13    | Prof. P. Sahu                       | Sambalpur University | Short term course         |
| 14    | Prof. K. Satpathy                   | Sambalpur University | Short term course         |
| 15    | Prof. R. K. Jha                     | NIT Rourkela         | Short term course         |
| 16    | Prof. Amlan Das                     | NIT Durgapur         | Short term course         |
| 17    | Prof. B. Panigrahi                  | OUAT Bhubaneswar     | Short term course         |
| 18    | Prof. J. P. Behera                  | IGIT Sarang          | Special Lecture           |
| 19    | Prof. S. K. Sahu                    | NIT Rourkela         | National Workshop         |
| 20    | Mr. S. K. Dash                      | OSDMA, Odisha        | National Workshop         |

**45. List the teaching methods adopted by the faculty for different programmes:**

- Based on the previous experience and available expert guidance, various teaching methods such as Brainstorming, Quiz, Short seminar, LCD presentation, Smart board presentation, Software demos, illustration with physical models, Quiz, e-learning, industrial visit, students seminars presentation and distribution of soft/hard copy of handouts/PPT are used for various programmes offered by the department.
- Digitized lecture notes are uploaded in the University website for better performance of students.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The examination system including, Class Tests, Mid-Semester Examination, End Semester Examination ensure that the programme objectives and outcomes are met through periodical reviews.
- Departmental meetings are conducted at regular intervals to monitor the teaching learning process and ensure that the programme objectives and outcomes are constantly met.
- In addition, a department conducts regular meetings comprising of all the stakeholders separately including, students, faculty, employers, parents, alumni and industries to review the system of ensuring programme objectives and outcomes through the teaching learning process and evaluation methods.

**47. Highlight the participation of students and faculty in extension activities:**

The “Society of Civil Engineers” consists of both faculties and students of the department. The department society is involved in various extensive activities like blood donation, plantation and cleaning mission under ‘Swachha Varat Aviyan’. Before the blood donation, the news is spread both in print media and electronic media. Faculties, students and outside people come forward for blood donation. The collected blood is send to local blood bank. Even the faculties and the students of the society take part in sports and NCC at University level.

| Activity       | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|----------------|---------|---------|---------|---------|---------|
| Blood donation | 09      | 15      | 19      | 13      | 08      |
| Sports         | 20      | 18      | 16      | 22      | 17      |
| NCC            | 18      | 22      | 24      | 26      | 28      |

**48. Give details of “beyond syllabus scholarly activities” of the department:**

- Professional societies such as “Society of Civil Engineers” is functioning effectively and organizes National level technical symposium, guest lectures, technical events such as model contest, poster presentation, design contest etc.
- The students are encouraged to participate in various regional level and national level technical events organized by other Institutions.
- Students also participate in University cultural fest and literary fest every year.
- In order to apply the concepts learned, activities like model making contest, paper/poster /design contests are conducted regularly in the intra dept level.
- Students also encouraged to participate in sports activities within the University and conducted by other Institutions.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities like Promotion of computer literacy among rural people etc.
- Students are encouraged to participate in Value added programs.
- Industrial visits are arranged regularly and in-plant training is also encouraged.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- B. Tech Civil Engineering. was accredited for five years w.e.f. 30.3.2006.
- The department is in process to apply freshly for NBA.
- Being a part University, the department has submitted its evaluation report for NAAC accreditation.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**

- Dr. A. N. Nayak conducted studies on techniques for seismic retrofitting of reinforced concrete elements.
- Dr. A. N. Nayak studied the performance of steel - concrete composite for structural applications.
- Dr. P. K. Pradhan investigated the geo-technical properties of soil for setting up the coal washeries at IB-valley and Talcher.
- Dr. P. K. Pradhan investigated the geo-technical properties of soil for setting up the

coal washeries at IB-valley and Talcher.

- Dr. P. K. Pradhan conducted the studies on remedial measures to be taken to prevent cracks in residential building of OPGC, Jharsuguda.
- Dr. P. K. Pradhan conducted the studies on remedial measures to be taken to prevent cracks in NH-22.
- Dr. P. K. Pradhan conducted the studies on remedial measures to be taken to prevent the failure of embankment of Bargarh canal.
- Dr. P. K. Pradhan conducted the geotechnical investigation of Talcher- Sambalpur railway project.
- Dr. P. K. Pradhan conducted the feasibility studies on availability of groundwater in BSNL Campus, Blangir.
- Dr. C. R. Mohanty and Dr. R. R. Dash are in process of developing a cost-effective “water filter” which shall be used in various parts in Odisha
- Dr. C. R. Mohanty and Dr. S.K. Panigrahi are currently engaged to develop a “Nitrite based Corrosion Inhibitor” for protection of steel bars in concrete environment. This product offers excellent corrosion resistance properties and appreciable improvement in concrete strength.
- Dr. C. R. Mohanty and Dr. R. R. Dash are engaged by SPCB Odisha to audit flyash generation and utilization in the state of Odisha.
- Dr. C. R. Mohanty and Dr. A. K. Nayak designed a water treatment system for the Sambalpur area.
- Dr. S. S. Das took a road safety audit in Odisha Chhatisgarh Boarder.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**Strength:**

- Top ranking students of our state are opting to join the department.
- Active student participation in curricular and extra-curricular activities.
- 60 years old department with highly placed alumini in various organizations and institutions across globe.
- Highly qualified, experienced and dedicated faculty is the pillar of support of the department.

- A significant number of faculties with Ph.D. qualification (56%).
- From the rest, a major part of faculty is pursuing Ph.D.
- High faculty retention rate.
- Well equipped laboratories with latest software's.
- Research expertise in the areas such as Concrete composites, Construction materials & Technology, Geo-environmental engineering and GIS.
- Well experienced non-teaching staff.
- Well equipped laboratories to generate revenue from consultancies.

**Weakness:**

- Unable to fully harness the expertise of alumni.
- Additional space for expansion of classrooms and laboratories.
- Poor connection to airports.

**Opportunities:**

- Industry sponsored laboratories for joint research and consultancy.
- Collaborative research work with premier research institutions / foreign universities.
- Highly qualified faculty in all specializations to start a need based interdisciplinary new P.G. programme & research.
- To get consultancy in the area of environment and Remote Sensing & GIS field.
- To file patent of developed products / concepts / technologies.

**Challenges:**

- Inculcate ethical values in the mind of students
- To upgrade the laboratories of the department to meet the state of the art equipment at national and international level
- To increase the number of external funded projects and consultancy works by competing with premier institutions.
- Changing the attitude of students towards focused learning and research.



**52. Future plans of the department:**

- Department hopes to enlarge it by opening dual degrees.
- Department is focused towards Transformative research.
- It has also applied to DST for financial assistant for research projects.
- This will widen the scope for getting research scholars whom may later be posted as faculty in the dept. The project can also provide publicity to department in areas of design consultancy works..
- Big firms are expected to provide assignment on various consultancy works.
- Revenue generated in this process would help to convert the B.Tech & M.Tech. programme into a *earn and learn scheme* with zero admission charges.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department** : Department of Computer Science & Engineering and Information Technology (CSE & IT)
2. **Year of establishment** :1994.
3. **Is the Department part of a School/Faculty of the university?**

The Department is independent and part of the University.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

| Sl.No.               | Programmes  | Year of Commencement | Initial sanctioned Student Intake | Current sanctioned Student Intake |
|----------------------|---|----------------------|-----------------------------------|-----------------------------------|
| <b>Undergraduate</b> |   |                      |                                   |                                   |
| 1.                   | B.Tech. in Computer Science and Engineering       | 1994                 | 30                                | 60                                |
| 2.                   | B.Tech. in Information Technology                 | 2003                 | 40                                | 60                                |
| <b>Post graduate</b> |   |                      |                                   |                                   |
| 3.                   | M.Tech. in Computer Science and Engineering       | 2008                 | 18                                | 18                                |
| 4.                   | M.Tech. in Information & Communication Technology | 2013                 | 18                                | 18                                |
| <b>Doctoral</b>      |   |                      |                                   |                                   |
| 5.                   | Ph.D. in Computer Science & Engineering           | 2011                 | <b>Initial Student Intake</b>     | <b>Current Student Intake</b>     |
|                      |   |                      | 8                                 | 29                                |

5. **Interdisciplinary programmes and departments involved**

The following interdisciplinary courses and departments of the university are involved in various UG and PG programme of the department.

| Sl.No. | Interdisciplinary Courses | Year            | Departments Involved    |
|--------|---------------------------|-----------------|-------------------------|
| 1      | Mathematics-I             | 1 <sup>st</sup> | Mathematics             |
| 2      | Physics                   | 1 <sup>st</sup> | Physics                 |
| 3      | Chemistry                 | 1 <sup>st</sup> | Chemistry               |
| 4      | Engg. Mechanics           | 1 <sup>st</sup> | Mechanical              |
| 5      | Basic Elec. Engg.         | 1 <sup>st</sup> | Electrical              |
| 6      | Basic Electronics         | 1 <sup>st</sup> | Electronics & Telecomm. |
| 7      | English for Comm.         | 1 <sup>st</sup> | Humanities              |
| 8      | Environment Sc. & Engg.   | 1 <sup>st</sup> | Civil                   |
| 9      | Mathematics-II            | 1 <sup>st</sup> | Mathematics             |
| 10     | Mathematics-III           | 2 <sup>nd</sup> | Mathematics             |

|    |                                    |                 |                         |
|----|------------------------------------|-----------------|-------------------------|
| 11 | Organization Behavior              | 2 <sup>nd</sup> | Humanities              |
| 12 | Analog Electronics Circuits        | 2 <sup>nd</sup> | Electronics & Telecomm. |
| 13 | Mathematics-IV                     | 2 <sup>nd</sup> | Mathematics             |
| 14 | Engg. Economics & Costing          | 2 <sup>nd</sup> | Humanities              |
| 15 | Digital Electronics Circuits       | 2 <sup>nd</sup> | Electronics & Telecomm. |
| 16 | Discrete Mathematical Structure    | 3 <sup>rd</sup> | Mathematics             |
| 17 | Information Theory & Coding        | 4 <sup>th</sup> | Electronics & Telecomm. |
| 18 | Physics Lab                        | 1 <sup>st</sup> | Physics                 |
| 19 | Chemistry Lab                      | 1 <sup>st</sup> | Chemistry               |
| 20 | Language Lab                       | 1 <sup>st</sup> | Humanities              |
| 21 | Engg. Drawing                      | 1 <sup>st</sup> | Civil                   |
| 22 | Workshop Practice                  | 1 <sup>st</sup> | Mechanical              |
| 23 | Basic Electrical Lab               | 1 <sup>st</sup> | Electrical Engg.        |
| 24 | Basic Electronics Lab              | 1 <sup>st</sup> | Electronics & Telecomm. |
| 25 | Analog Electronics & Circuits Lab  | 2 <sup>nd</sup> | Electronics & Telecomm. |
| 26 | Digital Electronics & Circuits Lab | 2 <sup>nd</sup> | Electronics & Telecomm. |
| 27 | Digital Signal Processing          | 4 <sup>th</sup> | Electronics & Telecomm. |
| 28 | Microcontroller & Embedded Systems | 4 <sup>th</sup> | Electronics & Telecomm. |
| 29 | VLSI Design                        | 4 <sup>th</sup> | Electronics & Telecomm. |
| 30 | Image Processing                   | 4 <sup>th</sup> | Electronics & Telecomm. |
| 31 | Cryptography & Network Security    | 4 <sup>th</sup> | Electronics & Telecomm. |
| 32 | Human Resource Management          | 4 <sup>th</sup> | Humanities              |
| 33 | Intellectual Property Rights       | 4 <sup>th</sup> | Humanities              |

**6. Courses in collaboration with other universities, industries, foreign institutions, etc.**

The faculty members of the department are involved in development of courses, design of syllabus, supervision of M.Tech /PhD Thesis work and teaching of graduate and post graduate courses as visiting faculty and guest faculty in other universities and institutions. The faculty members are also involved actively in various industry-institute collaborative programs and projects. The faculty members from other universities and industry persons have collaborated in various capacities in academic and research activities of the department.

Our collaboration involves eminent persons from the following reputed academia and industries.

|  |
|--|
| <p><b>Academia:</b><br/> Texas A&amp;M University USA, NUS Singapore, NTU Singapore, MIR Lab USA, University of Canberra, Australia,<br/> IIT Kharagpur, IIT Bhubaneswar, IIT Madra, IIT Delhi, ISI Kolkata, IISC Bangalore, NIT Goa, Central University Hyderabad, BIT Mesra, NIT Rourkela, G. G. University Chattisgarh, CEERI Rajesthan, Kalyani University Nadia,IGIT Sarang, CET Bhubaneswar, SOA University Bhubaneswar, Sambalpur university, Utkal University, Berhampur University, Biju Pattnaik Univerity of Technology Rourkela.</p> |
| <p><b>Industries:</b><br/> Infosys Bhubaneswar, Wipro Banglore Pune Hyderabad, TCS Bhubaneswar Mumbai Kolkatta, Accenture Kolkata, TCS Kolkata, TCS Trivandrum, Simav Solutions Pvt. Ltd. Pune, Mahindra Satyam Bhubaneswar</p>  |

**7. Details of programmes discontinued, if any, with reasons :** No

**8. Examination System: (Annual/Semester/Trimester/Choice Based Credit System)**

The Examination System is Semester. The department currenty offers professional and open electives for studetents in their courses based on their interests.The Choice Based Credit System (CBCS) is going to be implemented by the University from the academic session 2015-16.

**9. Participation of the department in the courses offered by other departments.**

The faculty members of the department are actively participating in the teaching of courses offered by other departments. The courses are as follows:

- Programming and data structures
- Object oriented programming.

These courses are offered by the following departments in their 1<sup>st</sup> and 2<sup>nd</sup> year B. Tech:

- Civil Engineering
- Electrical Engineering
- Electrical and Electronics Engineering
- Electronics and Telecommunication engineering.
- Mechanical Engineering
- Metallurgy & Materials Engineering
- Production Engineering

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

| Teaching Post        | Sanctioned | Filled | Actual (including CAS & MPS) |
|----------------------|------------|--------|------------------------------|
| Professor            | 5          | 2      | Nil                          |
| Associate Professors | 6          | 0      | Nil                          |
| Asst. Professors     | 17         | 17     | Nil                          |
| Lecturers            | 3          | 3      | Nil                          |

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

| Sl. No. | Name              | Qualification                             | Designation                | Specialization  | Experience | No. Ph.D Scholars under guidance |
|---------|-------------------|---|----------------------------|---|------------|----------------------------------|
| 1       | Dr. C.R. Tripathy | Ph.D (IIT KGP)                            | Professor                  | Parallel Processing, Fault Tolerant System  | 31         | 08                               |
| 2       | Dr. A. K.Rath     | Ph.D (UTKAL Univ.)                        | Professor                  | Computer Architecture, Embedded System, Data Structure  | 23         | 05                               |
| 3       | Dr. M. RKabat     | Ph.D (Sambalpur Univ.)                    | Assistant Professor & Head | Internet & Quality of Service, Computer Algorithm, Real-Time Systems, Artificial Intelligence | 14         | 06                               |
| 4       | Dr. S.Panigrahi   | Ph.D (IIT KGP)                            | Assistant Professor        | Database & Information Security, Wireless Sensor Networks                                     | 10         | 04                               |
| 5       | Dr. H.S.Behera    | Ph.D (BPUT, RKL)                          | Assistant Professor        | Data Mining & Soft Computing, Distributed System  | 15         | 07                               |
| 6       | Dr. S. Das        | Ph.D (FM Univ.)                           | Assistant Professor        | Distributed Systems, Mobile Computing & Networks, Real Time Systems, Fault Tolerant Computing | 17         | 03                               |
| 7       | Dr. R.Mohanty     | Ph.D (IIT Madras)                         | Assistant Professor        | Online Algorithm, Self-Organizing Data Structures   | 14         | 01                               |
| 8       | Mr. S. P.Sahoo    | M.Tech (Utkal, Univ.)<br>Ph.D Pursuing    | Assistant Professor        | Computer Networks, Data Structure, Soft Computing, Database Engineering                       | 10         | Nil                              |
| 9       | Mr. D.C. Rao      | M.Tech (BPUT, Rkl.)<br>Ph.D Pursuing      | Assistant Professor        | Compiler, Theory of Computation, Artificial Intelligence, Computer Networks & Security        | 10         | Nil                              |
| 10      | Ms. S. Behera     | M.Tech (NIT, Rkl)<br>Ph.D Pursuing        | Assistant Professor        | Computer Architecture, Computer Networks, Mobile Communication, Artificial Intelligence       | 14         | Nil                              |
| 11      | Mr. K. K. Sahu    | M.Tech (Berhampur Univ.)<br>Ph.D Pursuing | Assistant Professor        | Soft Computing, Artificial Intelligence, Theory of Computation                                | 10         | Nil                              |

|    |                     |   |                     |  |    |     |
|----|---------------------|---|---------------------|--|----|-----|
| 12 | Mr. S. K.Sathua     | M.Tech (NIT, Rkl)                           | Assistant Professor | Image Restoration & Cloud Computing  | 3  | Nil |
| 13 | Ms. S.Kisan         | M.Tech (ISM Dhanbad)<br>Ph.D<br>Persuing    | Assistant Professor | Cryptography & Network Security, Image Processing & Fractal Study                        | 5  | Nil |
| 14 | Mr. S. K. Panda     | M.Tech (NIT, Rkl.)<br>Ph.D<br>Persuing      | Assistant Professor | Grid & Cloud Computing   | 1  | Nil |
| 15 | Mr. A. V.Lakra      | M.Tech (MNNIT, Allabad)                     | Assistant Professor | Cloud Computing  | 4  | Nil |
| 16 | Mr. G.Shial         | M.Tech (IIT Mumbai)                         | Assistant Professor | Cloud Computing  | 1  | Nil |
| 17 | Ms. G.Bhattacharjee | M.E (BIT, Mesra)                            | Assistant Professor | Software Engineering   | 1  | Nil |
| 18 | Mr. P. K. Das       | M.Tech (Jadavpur Univ.)<br>Ph.D<br>Persuing | Assistant Professor | Machine Intelligent & Computer Vision, Emotional Intelligent, Robotics, Video Processing | 15 | Nil |
| 19 | Mr. S. Sourav       | M.Tech (ISI Kolkata)                        | Assistant Professor | Network Security   | 1  | Nil |
| 20 | Mr. A. Agrawalla    | M.Tech (BPUT, Rkl.)                         | Lecturer            | Information Security   | 10 | Nil |
| 21 | Mr. S. R. Sahu      | M.Tech (VSSUT Burla)                        | Lecturer            | Data Mining  | 1  | Nil |
| 22 | Ms. S. Nayak        | M.Tech (BPUT, Rkl.)                         | Lecturer            | Object Oriented Systems  | 7  | Nil |

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

The following is the list of eminent faculty members who have visited the department:

| Name of Senior Visiting Faculties | Organization                      |
|-----------------------------------|-----------------------------------|
| Prof. S. K. Panda                 | NUS, Singapore                    |
| Prof. A. Abraham                  | MIR Lab, USA                      |
| Prof. D. Sharma                   | University of Canberra, Australia |
| Prof. R. N. Mahapatra             | Texas A&M University, USA         |
| Prof. R. Mall                     | IIT Kharagpur                     |
| Prof. G. Panda                    | IIT, Bhubaneswar                  |
| Prof. P. K. Dash                  | SOA University, Bhubaneswar       |
| Prof. A.K. Pujahari               | Central University, Hyderabad     |
| Prof. G. Sahu                     | BIT, Mesra                        |
| Prof. A. K. Saxena                | G. G. University, Chattisgarh     |
| Prof. B. Majhi                    | NIT, Rourkela                     |

|                      |                           |
|----------------------|---------------------------|
| Prof. S. K. Jena     | NIT, Rourkela             |
| Prof. R. K. Chhotray | NIT, Rourkela             |
| Prof. S. K. Rath     | NIT, Rourkela             |
| Prof. P. K. Patra    | CET, Bhubaneswar          |
| Prof. S. N. Mishra   | IGIT, Sarang              |
| Prof. J. K. Mandal   | Kalyani University, Nadia |

**13. Percentage of classes taken by temporary faculty – programme-wise information**

| Sl No. | Programmes  | %classes taken by temporary faculty |
|--------|---|-------------------------------------|
| 1.     | B.Tech. in Computer Science and Engineering       | 8%                                  |
| 2.     | B.Tech. in Information Technology                 | 8%                                  |
| 3.     | M.Tech. in Computer Science and Engineering       | Nil                                 |
| 4.     | M.Tech. in Information & Communication Technology | Nil                                 |
| 5.     | Ph.D. in Computer Science & Engineering           | Nil                                 |

**14. Programme-wise Student Teacher Ratio**

| Sl No | Programmes Offered | Student Teacher Ratio |
|-------|--------------------|-----------------------|
| 1     | Under Graduate     | 15:1                  |
| 2     | Post Graduate      | 10:1                  |

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

| Support staff and administrative staff | Sanctioned | Filled | Actual (including CAS & MPS) |
|--|------------|--------|------------------------------|
| Technical Assistant                    | 1          | 1      | Nil                          |
| Junior Instructors                     | 2          | 0      | Nil                          |
| Lab attendant                          | 2          | 2      | Nil                          |
| Office assistant                       | 1          | 1      | Nil                          |
| Peon                                   | 1          | 1      | Nil                          |

**16. Research thrust areas as recognized by major funding agencies**

| Research areas  | Funding agencies         |
|---|--------------------------|
| Wireless Sensor Network / Cloud Computing / Data Mining / Online Algorithm / Big Data Analysis / Embedded System / Information Security | AICTE/DST/UG C/ISRO/DRDO |

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

The faculty members of this Department had applied research projects to various funding agencies. These proposals are under review.

**18. Inter-institutional collaborative projects and associated grants received**

| (a) | National Collaboration  | Date       | Purpose   |
|-----|-------------------------|------------|---|
| 1   | Infosys Ltd., Bangalore | 21.06.2014 | This MOU is for collaboration between both parties, for mutual benefit, to enhance the quality of the educational experience of students. |

|            |   |             |  |
|------------|---|-------------|--|
| 2          | NI System (India) Pvt. Ltd., Hobli, Bangalore                 | 26.06.2014  | Encouraging engineers from industry to visit Industry Institution Interaction Cell (IIC) to deliver lectures; Participating of experts from industry in IIC curriculum development; Visits of Faculty Member to industry; Industrial Testing;  |
| 3          | SKF India Ltd., Chinchwad, Pune                               | 14.07.2014  | In view of the challenging environment and the need to provide students with better learning opportunities it is essential to form more industry-academic partnerships. Such an initiative provides students with excellent learning opportunities and helps in disseminating knowledge.                                       |
| 4          | Tech Mahindra, Pune   | 13.08.2014  | Tech Mahindra and VSSUT are contemplating to enter into a long term mutually beneficially relationship in line with vision of Industry academic collaboration in areas of academic and technical exchange, to develop academic and scientific relationships, and in support of collaborative research and training activities. |
| <b>(b)</b> | <b>International Collaboration</b>                            | <b>Date</b> | <b>Purpose</b>   |
| 1          | Institute National Research Scientific (INRS), Quebec, Canada | 12.09.2014  | Formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair MATECSS  |

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

The department has received grants from different external funding agencies such as UGC and AICTE under various schemes worth Rs 20 Lakhs.

**20. Research facility / centre with**

- **State recognition:** The Govt. Of Odisha has recognized the department as centre of learning cum academic research and sanctioned grant for the development and upgradation of all the laboratories of the department for the use of under graduate students of the state who are selected with top ranks in the merit list through state level Odisha Joint Entrance Examination.
- **National recognition:** The department has well equipped research laboratories which provides state of the art facilities to the post graduate and doctoral research scholars from across the country who are selected through national level tests such as GATE, NET etc followed by written test and interview.
- **International recognition :** The faculty members of the department are involved in emerging and advanced areas of research work and are in the process of collaborating with eminent faculties of reputed foreign universities. In addition, the department has organized international conference and invited eminent professors from foreign universities to strengthen professional and research collaborations with their active involvement as key note speakers / conference chairs / programme committee members / advisory board / tutorial speakers and chairs etc. Many graduated students



of the department are working abroad and throughout the globe in reputed organizations like Microsoft, Apple, Yahoo, ORACLE, Morgan & Stanley, HP, IBM. Many top ranked graduated students have earned their masters and Ph.D degree from reputed top ranked foreign universities.

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

The department is in the process of associating industries and corporate bodies by organizing training programs for students and faculties of the department and also in the process of signing MoUs with industries and corporate bodies to setup research laboratories. A collaboration has been initiated with IBM to set up a centre of excellence in cloud computing.

**22. Publications:**

- Number of papers published in peer reviewed journals (national / international)

| Faculty Name         | National | International |
|----------------------|----------|---------------|
| Prof. C. R. Tripathy | 1        | 30            |
| Prof. A. K. Rath     | 5        | 25            |
| Dr. M. R. Kabat      | 0        | 10            |
| Dr. S. Panigrahi     | 0        | 5             |
| Dr. H. S. Behera     | 2        | 48            |
| Dr. S. Das           | 1        | 7             |
| Dr. R. Mohanty       | 1        | 19            |
| Mr. S. P. Sahoo      | 1        | 5             |
| Mr. D. C. Rao        | 1        | 1             |
| Mr. K. K. Sahu       | 0        | 1             |
| Mrs. S. Behera       | 0        | 2             |
| Mrs. S. Kisan        | 1        | 1             |
| Mr. S. Sathua        | 0        | 1             |
| Mr. S. K. Panda      | 0        | 7             |
| Mr. G. Shial         | 0        | 0             |
| Mr. G. Bhattacharjee | 1        | 2             |
| Mr. P. Das           | 1        | 16            |
| Mr. A. V. Lakra      | 0        | 0             |
| Mr. S. Sourav        | 0        | 2             |

- Number of papers published conferences proceedings (national / international)

| Faculty Name         | National | International |
|----------------------|----------|---------------|
| Prof. C. R. Tripathy | 2        | 20            |
| Prof. A. K. Rath     | 8        | 16            |
| Dr. M. R. Kabat      | 1        | 10            |
| Dr. S. Panigrahi     | 1        | 9             |
| Dr. H. S. Behera     | 5        | 25            |
| Dr. S. Das           | 6        | 12            |
| Dr. R. Mohanty       | 2        | 15            |
| Mr. S. P. Sahoo      | 1        | 5             |
| Mr. D. C. Rao        | 2        | 0             |
| Mr. K. K. Sahu       | 1        | 1             |
| Mrs. S. Behera       | 0        | 2             |

|                      |   |    |
|----------------------|---|----|
| Mrs. S. Kisan        | 1 | 1  |
| Mr. S. Sathua        | 0 | 1  |
| Mr. S. K. Panda      | 0 | 21 |
| Mr. G. Shial         | 0 | 2  |
| Mr. G. Bhattacharjee | 1 | 0  |
| Mr. P. Das           | 0 | 4  |
| Mr. A. V. Lakra      | 0 | 1  |

- Edited Books and Chapters in Books

| Faculty Name         | Book | Book Chapters |
|----------------------|------|---------------|
| Prof. C. R. Tripathy | 1    | 4             |
| Prof. A. K. Rath     | 7    | 4             |
| Dr. M. R. Kabat      | 2    | 2             |
| Dr. R. Mohanty       | 0    | 1             |
| Dr. S. Das           | 2    | 1             |
| Dr. H. S. Behera     | 1    | 4             |
| Mr. P. Das           | 0    | 2             |
| Mr. S. P. Sahoo      | 1    | 1             |

- Citation Index – range / average : 3- 250 (range) 120(average)
- Impact Factor – range / average : 0.5- 2.5 (range) 0.9(average)
- h-index : 1-8 (range) 4 (average)

### 23. Details of patents and income generated :

Students and faculty members are trained and involved in various projects such as development of models, prototypes, processes and innovative products. Some of the innovative ideas are in the process of filing of patents in future.

### 24. Areas of consultancy and income generated:

Web design and maintenance and software development.

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad

| Faculty visit to Laboratories/Institutions/Industries  |
|--|
| <b>Prof. C. R. Tripathy</b><br>IIT Kharagpur, NIT Rourkela, CET Bhubaneswar, IGIT Sarang, Infosys Bhubaneswar, CEERI Rajasthan.  |
| <b>Prof. A. K. Rath</b><br>NTU, Singapore, IIT Kharagpur, Jadavpur University, Kolkatta, ISI Kolkatta, NIT, Rourkella, NIT Nagpur, SVNIT Surat, IIT Bhubaneswar, IIIT Allahabad, NAAC Bangalore, IIT Madras, NIT Goa, BIT Mesra, Govt. Engineering College Goa, Wipro Banglore Pune Hyderabad, TCS Bhubaneswar Mumbai Kolkatta, Infosys Bhubaneswar, |
| <b>Dr. M. R. Kabat</b><br>SJCE Mysore, SRM University Chennai, University of Barcelona, UVCE Bangalore, MIR Labs Rajkot, University of Mumbai, IIM Bangalore, Thapar University Patiala  |
| <b>Dr. S. Panigrahi</b><br>IIT Kharagpur, IIT Delhi, ISI Kolkata, Jadavpur University Kolkata, KIIT Bhubaneswar, SOA Bhubaneswar,  |

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|---|
| <p><b>Dr. H. S. Behera</b><br/>IIT Delhi, IIT Kharagpur, IIT Kanpur, IGIT Sarang, CET Bhubaneswar, Infosys, Bhubaneswar, Anna University Chennai, NIT Rourkela.</p>   |
| <p><b>Dr. S. Das</b><br/>IIT Kharagpur, UCE Burla, ER&amp;DC Thiruvananthapuram, Infosys Bhubaneswar, WIPRO Bhubneswar, Bengal Engineering College Howrah, Utkal University Bhubneswar.</p>   |
| <p><b>Dr. R. Mohanty</b><br/>IIT Madras, IIT Delhi, IIT Kanpur, IISC Bangalore, Anna University Chennai, IIT Hyderabad, HIT, Kolkata, NIT, Rourkela, IIT Kharagpur, IMSc, Chennai, JNU, New Delhi, Infosys, Bhubaneswar</p>   |
| <p><b>Mr. S. P. Sahoo</b><br/>Infosys Bhubaneswar, TCS Bhubaneswar, IIT Mumbai, SMVDU Jammu, CET Bhubaneswar,</p>   |
| <p><b>Mr. D. C. Rao</b><br/>MNNIT Allahabad, SVNIT Surat , NITTTR Chandigarh, IIITM-K Trivandrum, ICT Matunga Mumbai, VJTI Matunga Mumbai, NITTR Kolkatta, NIT Tirchi, NIT Calicut,</p>   |
| <p><b>Mr. K. K. Sahu</b><br/>IIT Kharagpur, IIT Guwahati, IIT Kanpur, IIT Mumbai, NIT Rourkela</p>  |
| <p><b>Mrs. S. Behera</b><br/>NIT Rourkela, KIIT University, Infosys Bhubaneswar.</p>  |
| <p><b>Mrs. S. Kisan</b><br/>ISM Dhanbad, IIIT Bhubaneswar, IGIT Sarang,</p>   |
| <p><b>Mr. S. Sathua</b><br/>NIT Rourkella, TCS Bhubaneswar, Infosys Bhubaneswar.</p>  |
| <p><b>Mr. S. K. Panda</b><br/>SMIT Berhampur, KIIT Bhubaneswar, JUIT Waknaghat, TCS Bhubaneswar, Galgotia University New Delhi, JIIT New Delhi, ISM Dhanbad, Dr. N G P College of Engineering Coimbatore, A K GEC Ghaziabad, Dr. G R Damodaran College of Science Coimbatore, University of Kolkata, NIT Suratkal, MSRIT Bangalore, NIT Rourkela,</p> |
| <p><b>Mr. G. Shial</b><br/>IIT Mumbai, Accenture Kolkata, TCS Kolkata, TCS Trivandrum, Simav Solutions Pvt. Ltd. Pune,</p>  |
| <p><b>Mr. G. Bhattacharjee</b><br/>BIT Mesra, VIT Vellore, IIIT Bhubaneswar, Jadavpur University, NIT Rourkela, Mahindra Satyam Bhubaneswar</p>   |
| <p><b>Mr. P. Das</b><br/>Jadavpur University, IIT Delhi, NIT Rourkela, NITTTR Kolkata, IEST Kolkata, IIT Kanpur</p>   |
| <p><b>Mr. A. V. Lakra</b><br/>MNNIT Allahabad, KIIT University,</p>   |
| <p><b>Mr. S. Sourav</b><br/>NUS Singapore, ISI Kolkatta, IIT Madras</p>   |

## 26. Faculty serving in

- a) National committees

| <b>Faculty serving in National Committees :</b>   |
|---|
| <p><b>Prof. C. R. Tripathy</b></p> <ul style="list-style-type: none"> <li>• Chairman Department Academic Committee</li> <li>• Chairman DSC, BoS, Conducting Board</li> <li>• Chairman of Academic Council Examination Committee, Moderation Board, Disciplinary Committee.</li> <li>• Member of Board of Studies and Conducting Board Sambalpur University</li> <li>• Computer Education Syllabus Committee Board of Secondary Education Odisha.</li> <li>• Selection committee member for recruitment of faculties in many Engineering colleges and</li> </ul> |

|   |
|---|
| <p>Universities.</p> <ul style="list-style-type: none"> <li>• Selection committee member of Orissa Public Service Commission and Union Public Service Commission.</li> <li>• Life Member of OITS, Institute of Engineers.</li> </ul>  |
| <p><b>Prof. A. K. Rath</b></p> <ul style="list-style-type: none"> <li>• NAAC Committee Member</li> <li>• FM University DSC Member</li> <li>• Member of Board of Management, Biju Pattnaik University of Technology (BPUT) since 7th April 2012 for a period of 3 years.</li> <li>• Member of Board of studies of SOA University and Biju Pattnaik University of Technology.</li> <li>• Question setter and Answer script evaluators for many Universities.</li> <li>• DSC Committee members of SOA University and Biju Pattnaik University of Technology.</li> <li>• Selection committee member for recruitment of faculties in many Engineering colleges and DAV Public schools.</li> <li>• Member of Editorial Advisory Board &amp; Member of Reviewer Board, Pezzottaite Journals, Jammu &amp; Kashmir.</li> </ul> |
| <p><b>Dr. M. R. Kabat</b></p> <ul style="list-style-type: none"> <li>• Chairman Department Academic Committee</li> <li>• Chairman DSC, BoS, Conducting Board</li> <li>• Member of Academic Council Examination Committee, Moderation Board, Disciplinary Committee, Sexual harassment and violence against women committee</li> <li>• Member of Conducting Board Sambalpur University</li> <li>• Computer Education Syllabus Committee Board of Secondary Education Odisha.</li> <li>• Selection committee member for recruitment of teacher in Kendriya Vidyalaya Sambalpur, Jawahar Navodaya Vidyalaya Sambalpur.</li> </ul>  |
| <p><b>Dr. S. Panigrahi</b></p> <ul style="list-style-type: none"> <li>• Life Member of OITS Bhubaneswar.</li> </ul>   |
| <p><b>Dr. H. S. Behera</b></p> <ul style="list-style-type: none"> <li>• Coordinator of the workshop on HACKTRACK,</li> <li>• Coordinator of the Faculty Development Programme on “Recent Trends in Advanced Computing(RTAC-2013)</li> </ul>   |
| <p><b>Dr. R. Mohanty</b></p> <ul style="list-style-type: none"> <li>• Co-coordinator in FDP “Recent Trends in Advance computing(RTAC), 2013</li> </ul>  |

b) International committees

| <b>Faculty serving in International Committees :</b>  |
|---|
| <p><b>Prof. A. K. Rath</b></p> <ul style="list-style-type: none"> <li>• Reviewer in ICTIEE-2015 Second International Conference on Transformations in Engineering Education Jan 5-8, 2015, Bangalore, India</li> <li>• Reviewer in ICIT, International Conference On Information Technology</li> <li>• Reviewer in Technical programme Committee International Conference On Global Trends In Engineering, Technology And Management ICCTETM 2015 , Jalgaun</li> <li>• 2nd International Conference On Emerging Trend In Computer Science, Communication And Information Technology, CSCIT 2015 invited speaker/ advisory committee. Nanded</li> <li>• Reviewer in ICCICN 2014 International Conference on Computational Intelligence and Communication Networks</li> </ul> |
| <p><b>Dr. M. R. Kabat</b></p> <ul style="list-style-type: none"> <li>• Reviewer of ADCOM 2007.</li> <li>• Member of the Editorial Board of “Journal of Artificial Intelligence and Research”</li> <li>• Reviewer in International Journal of Communication Networks and Distributed Systems (IJCNDIS)</li> </ul>  |

|  |
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| <ul style="list-style-type: none"> <li>• Reviewer in International Conference on Industrial Instrumentation and Control (ICIC 2015).</li> <li>• Reviewer in Journal of Computational Methods in Sciences and Engineering (JCMSE)</li> <li>• Reviewer in International Journal of Metaheuristics (IJMHEUR)</li> <li>• Reviewer in International Conference on Computational Intelligence and Data Mining</li> <li>• Reviewer in journal of experimental and theoretical artificial intelligence</li> </ul>  |
| <p><b>Dr. S. Panigrahi</b></p> <ul style="list-style-type: none"> <li>• Reviewer in International Conference on Computational Intelligence and Networks</li> </ul>   |
| <p><b>Dr. H. S. Behera</b></p> <ul style="list-style-type: none"> <li>• Convenor, ICCIDM-2014</li> <li>• International Conference on Computer and Communication Technology (<b>ICCCT</b>) 2012 organized by Computer Science and Engineering Department M.N.N.I.T., Allahabad (U.P.), INDIA</li> <li>• International Journal on Advanced Computing Techniques and Applications (<b>IJACTA</b>)</li> <li>• International Journal of Computer Science and Information Security (<b>IJSIS</b>)</li> <li>• International Journal on Advances in Engineering and Technology (<b>IJAET</b>) (ISSN: 2231-1963)</li> <li>• ICTACT Journal of Communication Technology (<b>IJCT</b>): 0976-0091(Print) and 2229-6948(On-line)</li> <li>• ICTACT Journal of Soft Computing (<b>IJSC</b>): 0976-6561(Print) and 2229-6956 (On-line)</li> <li>• Asian Journal of Computer and Information Systems (<b>AJCIS</b>)</li> <li>• International Journal of Modern Communication Technologies and Research (<b>IJMCTR</b>)</li> </ul>   |
| <p><b>Dr. S. Das</b></p> <ul style="list-style-type: none"> <li>• JEEER (Four paper reviewed), ISSN (printed): 1533-3604.</li> <li>• JETR (One paper reviewed), ISSN: 2251-3701</li> </ul>   |
| <p><b>Dr. R. Mohanty</b></p> <ul style="list-style-type: none"> <li>• Member of International Association of Engineers</li> <li>• Member ACM computer Science Teachers Association</li> <li>• International Technical committee member ICCIDM</li> <li>• Reviewer Elsevier Information Sciences Journal</li> <li>• Reviewer ICCCT</li> </ul>   |
| <p><b>Mr. S. K. Panda</b></p> <ul style="list-style-type: none"> <li>• Global Journals Inc., USABritish Journal of Mathematics &amp; Computer Science, USA</li> <li>• International Journal of Scientific Engineering and Technology (IJSET), India</li> <li>• International Journal of Latest Research in Engineering and Computing (IJLREC), India</li> <li>• International Journal of Computing and Digital Systems (IJCDS), UK</li> <li>• International Journal of Engineering Research (IJER), India</li> <li>• Open Journal of Mobile Computing and Cloud Computing (MCCC), USA</li> <li>• American Journal of Computation, Communication and Control, USA</li> <li>• American Journal of Computer Science and Information Engineering, USA</li> <li>• IEEE Business Engineering and Industrial Applications Colloquium (BEIAC), 2013, Malaysia</li> <li>• IEEE Symposium on Humanities, Science and Engineering Research (SHUSER), 2013, Malaysia</li> <li>• IEEE Symposium on Business, Engineering and Industrial Applications (ISBEIA), 2013, Malaysia</li> <li>• Colloquium on Administrative Science and Technology (CoAST), 2013, Malaysia</li> <li>• International Civil and Infrastructure Engineering Conference (InCIEC) 2013, Malaysia</li> <li>• World Symposium on Computer Applications and Research (WSCAR), IEEE, 2014, Tunisia</li> <li>• IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER), 2014, Malaysia</li> <li>• AAGBS International Conference on Business Management (AiCoBM), 2014, Malaysia</li> <li>• International sColloquium of Art and Design Education Research 2014 (i-CADER), 2014, Malaysia</li> <li>• 3<sup>rd</sup> International Conference on Advances in Computing, Communications and Informatics</li> </ul> |

(ICACCI), 2014, India

- IEEE Conference on Clean Energy Technology (CEAT), 2013, Malaysia
- IEEE Innovative Smart Grid Technologies Conference – Asia (ISGT), 2014, USA
- International Conference on Computer Vision & Image Analysis (ICCVIA), 2014, UAE
- International Post Graduate Colloquium On Science And Technology (IPCOST), 2014, Malaysia
- Theory of Computing, and Global Computing Models (TCGC), 2014, India
- International Conference on Electronic Publishing and Information Technology (ICEPIT), 2014, Bahrain
- International Summit on Bio-Metrics and Smart Government (IBMSGs), 2014, UAE
- International Workshop on the Design and Performance of Networks on Chip (DPNoS), 2014, Canada
- International Workshop on Mobile Applications, (MobiApps), 2014, Spain
- International Conference on Signal Propagation and Computer Technology (ICSPCT), 2014, India
- International Conference on Computer Applications & Aided Diagnosis (ICCAAD), 2014, Algeria
- IEEE Symposium on Business, Engineering & Industrial Applications (ISBEIA), 2014, Malaysia
- International Conference on Parallel, Distributed and Grid Computing (PDGC), 2014, India
- IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), 2015, India
- 4<sup>th</sup> International Conference on Advances in Computing, Communications and Informatics (ICACCI), 2015, India
- IEEE International Power and Energy Conference (PECON), 2014, Malaysia
- 9<sup>th</sup> International Conference on Computing for Sustainable Global Development (INDIACom), 2015, India
- IC Engineering and Computational Innovative Sciences (ENCINS), 2015, Morocco.
- International Conference on Computing in Mechanical Engineering (ICCME), 2015, India.

**Mr. P. Das**

- Journal of Intelligent and Robotic Systems of Springer manuscript No JINT1256” Real Time VUDJOOD Algebra-based Detection Using Points-Cloud”
- Journal of Neurocomputing of Elsevier manuscript No NEUCOM-D-09-00347R1”Robotic Path Planning in Static Environment using Hierarchical Multi Neuron Heuristic Search and Probability based Fitness”
- Journal of Neurocomputing of Elsevier manuscript No NEUCOM-D-10-01050 “A Method of Undetermined Blind Source Separation with an Unknown Number of Sources”
- Journal of Neurocomputing of Elsevier manuscript No NEUCOM-D-09-00347”Robotic Path Planning in Static Environment using Hierarchical Multi Neuron Heuristic Search and Probability based Fitness”
- International journal of Neural Computing and Applications of springer manuscript No NCA-1532 “Application Of Local Linear Wavelet Neural Network In Dynamic Electricity Price Forecasting”
- International journal of Neural Computing and Applications of springer manuscript No NCA-584 “Narma-L2 Controlled Variable Frequency Three-Phase Induction Motor Drive”

c) Editorial Boards

**Faculty serving in Editorial Boards :**

**Prof. A. K. Rath**

- Editors-in-Chief of Books of abstract of project exhibition(Tech-fest on 19th-20th February 2014) Published by DRIEMS.
- Editors-in-Chief of International Journal of Intelligent Computing & Applied Sciences (IJICAS) Published by DRIEMS. (<http://www.ijicas.com/>) 2013.
- Editor of the Proceeding on Recent trends in Secured Adhoc Network (NSAN-2009) at College

of Engineering Bhubaneswar (CEB), Bhubaneswar, Sponsored by AICTE, New Delhi from October 10th – 11th 2009.

- Editor of Proceedings of National conference on soft computing at College of Engineering Bhubaneswar (CEB), Bhubaneswar on 17th November 2007.
- Editor of the Proceeding National Conference on Current Trends of Information Technology, May16 – 17th 2007, NCIT 2K7, at Krupajal Engineering College (KEC)Bhubaneswar.

**Dr. M. R. Kabat**

- Member of the Editorial Board of “Journal of Artificial Intelligence and Research”
- International Journal of Swarm Intelligence

**Dr. H. S. Behera**

- International Journal of Computer and Communication Technology (**IJCCT**) ISSN: 2231-0371(On Line) & 0975-7449 (Print)
- International Journal of Electrical Electronics Engineering (**IJEEE**) ISSN: 2231-3071(On Line)
- International Journal of Computer Science and Informatics (**IJCSI**) ISSN: 2231-5292(Print)
- International Journal of Smart Sensors and Ad Hoc Networks (**IJSSAN**) ISSN: 2248-9738(Print)
- International Journal of Advanced Computer Theory and Engineering (**IJACTE**) ISSN (Print): 2319-2526
- American Journal of Computer Science & Information Technology (**AJCSIT**), **PUBICON (Publication Icon)**
- International Journal of Research in Computer and Communication Technology (**IJRCCT**)
- Journal of Software Engineering Tools & Technology Trends (**JOSETTT**)
- IFRSA International Journal of Data Warehousing and Data Mining (**IJDWM**)
- International Journal of Computer Engineering & Technology (**IJCET**), **IAEME**(International Association for Engineering & Management Education) Group of Journals.
- International Journal of Advanced Research in Engineering & Technology (**IJARET**), **IAEME** (International Association for Engineering & Management Education) Group of Journals.
- International Journal of Engineering & Advance Technology (**IJEAT**), ISSN: 2249-8958(On Line)
- International Journal of Soft Computing & Engineering (**IJSCE**), ISSN: 2231-2307(On Line)
- Journal of Current Trends in Information Technology (**JCTIT**), STM (Science, Technology & Management) Journals
- International Journal of Computer Science & Business Informatics (**IJCSBI**)
- International Journal of Research In Manufacturing Technology & Management(**IJRMTM**), **IASTER**(International Academy for Science & Technology ,education & Research)
- International Journal of Research In Computer Application & Information Technology (**IJRCAIT**), **IASTER**(International Academy for Science & Technology ,education & Research)
- International Journal of Applied Engineering and Technology(IJET) published by **Centre for Info Bio Technology** (CIBTech) (Regd. No. SH/311R/2-16AP/42/09).
- Journal of Advanced Database Management & Systems (**JoADMS**), **STM** (Science, Technology & Management) Journals.
- Journal of Operating Systems Development and Trends (**JoOSDT**), **STM** (Science, Technology & Management) Journals
- International Journal of Bio-Medical Informatics and e-Health (**IJBMIeH**) ISSN 2321 – 9017
- American Journal of Advanced in Engineering and Technology (**AJAET**), **PUBICON (Publication Icon)**
- Advanced Computing: An American Journal (**ACAJ**), **PUBICON (Publication Icon)**
- American Journal of Computer Science & Engineering Servey (**AJCSSES**), **PUBICON (Publication Icon)**
- Scholars Journal of Engineering and Technology (**SJET**): An international, bi-monthly open access, peer reviewed journal, published by Scholars Academic and Scientific Publishers (SAS)

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| <p>Publisher) <b>ISSN: 2321-435X</b></p> <ul style="list-style-type: none"> <li>• International Journal of “Engineering, Technology &amp;Applied Research” <b>ETASR</b></li> <li>• International Journal of Advanced Research in Computer Science &amp; Technology (<b>IJARCST</b>) Editorial Board ID: IJARCST-EB-022-2014</li> <li>• International Journal of Technical Research and Applications (<b>IJTRA</b>) e-ISSN 2320-8163; p-ISSN 2321-7332</li> <li>• International Journal of Engineering Trends and Technology (<b>IJETT</b>) Editorial Board ID: SSRGJ-IJETT-1247, Seventh Sense Research Group</li> <li>• International Journal of Advances in Computer Science and its Applications (<b>IJACSA</b>), INSTITUTE OF RESEARCH ENGINEERING AND DOCTORS (<b>IRED</b>)</li> </ul> |
| <p><b>Dr. S. Das</b></p> <ul style="list-style-type: none"> <li>• Editor of Proceedings of National conference on soft computing at College of Engineering Bhubaneswar (CEB), Bhubaneswar on 17th November 2007.</li> </ul>   |
| <p><b>Dr. R. Mohanty</b></p> <ul style="list-style-type: none"> <li>• Reviewer Elsevier Information Sciences Journal</li> <li>• Reviewer ICCCT.</li> </ul>  |
| <p><b>Mr. S. K. Panda</b></p> <ul style="list-style-type: none"> <li>• American Journal of Computer Science and Information Engineering, USA</li> <li>• International Journal of Sensors and Sensor Networks, USA</li> <li>• International Journal of Wireless Communications and Mobile Computing, USA</li> </ul>  |
| <p><b>Mr. P. Das</b></p> <ul style="list-style-type: none"> <li>• Associative Editor of International Journal of Advanced Computer Engineering and theory</li> </ul>  |

d) any other (please specify)

**Faculty serving in other committees :**

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| <p><b>Prof. C. R. Tripathy</b></p> <ul style="list-style-type: none"> <li>• Vice-Chancellor (VSSUT) (Officiating),</li> <li>• Principal, UCE, Burla,</li> <li>• Dean, Academic Affairs (VSSUT),</li> <li>• Dean, P&amp;C (UCE, Burla),</li> <li>• HOD: Computer Sc.&amp; Engg. and Information Technology (UCE &amp; VSSUT),</li> <li>• HOD: Electronics &amp; TC Engg. (UCE),</li> <li>• Co-Ordinator, MCA Program, University College of Engg, Burla</li> <li>• Vice-Chairman, JEE(E&amp;M), Orissa,</li> <li>• Member, Board of Management</li> <li>• State Joint Secretary (Hon), Sikshya Vikas Samiti, Orissa, Bhubaneswar</li> <li>• Expert Member, AICTE visiting Team, India for grant of Recognition to Engg colleges,</li> <li>• Chairman, Computer Purchase Committee, University College of Engg, Burla</li> <li>• Chairman, Time Table committee, University College of Engg, Burla</li> </ul> |
| <p><b>Prof. A. K. Rath</b></p> <ul style="list-style-type: none"> <li>• Professor incharge CIF, VSSUT, Burla.</li> <li>• NAAC Coordinator, VSSUT, Burla.</li> </ul>   |
| <p><b>Dr. M. R. Kabat</b></p> <ul style="list-style-type: none"> <li>• Working as Warden of West Hostel, UCE, Burla</li> <li>• Worked as the Assistant Superintendent of North Hostel, U.C.E., Burla</li> <li>• Worked as the Dy. Centre Superintendent of all Examinations at U.C.E, Burla</li> <li>• Working as the Faculty Advisor of Computer Science &amp; Engineering Society, U.C.E, Burla.</li> <li>• Worked as the Vice President, Students’ Common Room Society, Audio Visual Club, Art and Photography Society, U.C.E., Burla</li> <li>• Worked as the member of training &amp; placement committee, U.C.E, Burla</li> <li>• Working as the Vice President, Music Club, U.C.E., Burla.</li> </ul>  |



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| <ul style="list-style-type: none"> <li>• Coordinate a three-student members team for ACM ICPC held at IIT, Kanpur in 2002, who got 13<sup>th</sup> position.</li> </ul>   |
| <p><b>Dr. S. Panigrahi</b></p> <ul style="list-style-type: none"> <li>• BOS and Conducting Board member at VSSUT, Burla</li> <li>• Departmental Academic committee member</li> <li>• DSC Member of Various Ph.D. scholars</li> <li>• Ph.D selection committee member, Department of CSE &amp; IT, VSSUT, Burla</li> <li>• Warden Visakha Hall of residence</li> <li>• VP Art and Photography Club, VSSUT, Burla 2013</li> <li>• Question setter and Answer script evaluators for many Universities</li> </ul>   |
| <p><b>Dr. H. S. Behera</b></p> <ul style="list-style-type: none"> <li>• Member, Board of Study, Conducting Board, and Moderation Board for B.Tech, M.Tech. in Computer Sc. &amp; Engineering, IT and MCA, VSSUT, Burla.</li> <li>• Member, Board of Study and Conducting Board in BCA, MCA, PGDCA Programme, Directorate of Distance Education, Sambalpur University,</li> <li>• MISTD, Member, Reviewer of the MCA/BCA/PGDCA course Material of DDCE Sambalpur University</li> <li>• Warden, Marichi Hall of Residence (2010-2012),</li> <li>• Vice-President Cultural Association(2012-2013),</li> <li>• Professor I/C University Canteen (2011- till date),</li> <li>• NBA Coordinator CSE, Dept.</li> <li>• Time Table I/C,</li> <li>• DSC Member CSE &amp; IT,</li> <li>• Member DAC CSE and IT,</li> <li>• Convenor ICCIDM</li> </ul> |
| <p><b>Dr. S. Das</b></p> <ul style="list-style-type: none"> <li>• BOS and Conducting Board member at NOU, Odisha</li> <li>• Question setter and Answer script evaluators for many Universities.</li> <li>• Coordinator M.Tech CSE, CEB and TAT, Bhubaneswar.</li> <li>• PIC ED Cell VSSUT Burla,</li> <li>• VP Cultural Society, VSSUT, Burla 2014</li> </ul>   |
| <p><b>Dr. R. Mohanty</b></p> <ul style="list-style-type: none"> <li>• Member APEX committee and Secretary OJEE, (2010),</li> <li>• Convenor Web Management committee VSSUT, (2010-2011), Secretary Alumni Association VSSUT, Burla (2009-2014)</li> <li>• Vice President SAMAVESH</li> <li>• Warden Vasishtha Hall of residence</li> <li>• Faculty advisor CSE society</li> <li>• Member academic council, BoS, conducting board, moderation board</li> <li>• Department faculty coordinator T&amp;P</li> <li>• Faculty incharge of department time table</li> <li>• Faculty inchage of research lab</li> <li>• Faulty in charge of department library</li> <li>• Secretary alumni association</li> <li>• Secetary teachers association</li> <li>• Prof. Incharge Alumni house</li> </ul>   |
| <p><b>Mr. S. P. Sahoo</b></p> <ul style="list-style-type: none"> <li>• Prof-in-charge, Laboratory – 4</li> <li>• Member, Convocation sub-committee 2013</li> <li>• Member, Departmental purchase committee, Dept. of CSE, VSSUT, Burla</li> </ul>   |

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| <ul style="list-style-type: none"> <li>• Convener, TEQIP Procurement Committee</li> <li>• Present in departmental and University functions to handle students' activity and discipline</li> <li>• Member, Library Committee.</li> <li>• Convenor, University ISTE Chapter, 2013-14</li> <li>• Member, Contractual Lecturer Selection Committee</li> <li>• Department NBA Co-coordinator</li> </ul>   |
| <p><b>Mr. D. C. Rao</b></p> <ul style="list-style-type: none"> <li>• Asst Warden Atri Hall of residence, VSSUT, Burla</li> <li>• Department Time Table Coordinator</li> <li>• Department Faculty advisor for IT Society</li> <li>• MIS Officer TEQIP-II Cell, VSSUT, Burla.</li> <li>• Faculty Advisor University Athletic Club 2013, VSSUT, Burla</li> <li>• Organized Workshop in collaboration with IIT Mumbai on FOSS.</li> <li>• Design of New M.Tech Course ICT, department of IT, VSSUT, Burla.</li> <li>• Member of Departmental Purchase committee</li> <li>• Member of Purchase committee of CIF, VSSUT, Burla</li> <li>• Member, Selection of contractual teachers, Department of CSE&amp; IT, VSSUT, Burla.</li> <li>• Member in university office automation committee</li> </ul> |
| <p><b>Mr. K. K. Sahu</b></p> <ul style="list-style-type: none"> <li>• Asst Warden Marichi Hall of residence, VSSUT, Burla</li> <li>• Department Time Table Coordinator</li> <li>• Faculty Advisor University Audio Visual Club 2012, VSSUT, Burla</li> <li>• Design of New M.Tech Course ICT, department of IT, VSSUT, Burla.</li> <li>• Member of Departmental Purchase committee</li> <li>• Member, Selection of contractual teachers, Department of CSE&amp; IT, VSSUT, Burla.</li> <li>• Faculty Coordinator in T&amp;P for Department of CSE&amp; IT.</li> </ul>  |
| <p><b>Mrs. S. Behera</b></p> <ul style="list-style-type: none"> <li>• Department Seminar in-charge in VSSUT</li> <li>• Design of New M.Tech Course ICT, department of IT, VSSUT, Burla.</li> <li>• Member of Departmental Purchase committee</li> <li>• Member, Selection of contractual teachers, Department of CSE&amp; IT, VSSUT, Burla.</li> </ul>   |
| <p><b>Mrs. S. Kisan</b></p> <ul style="list-style-type: none"> <li>• Faculty representative in Central library</li> <li>• Departmental library incharge</li> <li>• Faculty advisor in GALAXY 2014</li> <li>• Faculty advisor in "Research and Skill development programme"</li> <li>• Working Committee in NAAC 2015</li> </ul>  |
| <p><b>Mr. S. Sathua</b></p> <ul style="list-style-type: none"> <li>• Asst Warden Kratu Hall of residence, VSSUT, Burla</li> <li>• Faculty advisor Yoga Club, VSSUT, Burla.</li> <li>• Treasurer Alumni Association VSSUT, Burla</li> </ul>   |
| <p><b>Mr. S. K. Panda</b></p> <ul style="list-style-type: none"> <li>• Asst Warden Atri Hall of residence, VSSUT, Burla</li> <li>• Faculty advisor SAMAVESH 2015, VSSUT, Burla.</li> </ul>   |
| <p><b>Mr. G. Shial</b></p> <ul style="list-style-type: none"> <li>• Faculty Advisor Audio Visual CLUB, VSSUT, Burla, 2014</li> <li>• Working Committee in NAAC 2015, NBA 2014</li> </ul>   |
| <p><b>Mr. G. Bhattacharjee</b></p> <ul style="list-style-type: none"> <li>• Faculty advisor in "Research and Skill development programme"</li> <li>• Faculty advisor in "ICCIDM 2014"</li> </ul>   |

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| <ul style="list-style-type: none"> <li>• Member of Digitization of lecture notes Committee for “PDS” and “SE&amp;OoAD”</li> </ul> |
| <b>Mr. P. Das</b> <ul style="list-style-type: none"> <li>• Guest faculty Ravenshaw University</li> </ul>                          |
| <b>Mr. A. V. Lakra</b> <ul style="list-style-type: none"> <li>• Faculty advisor in “ICCIDM 2014”</li> </ul>                       |

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

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| <p><b>Prof. A. K. Rath</b></p> <ul style="list-style-type: none"> <li>• Participated as a session chair and Chief Guest in the valedictory function (on 15th Nov. 2014) in 3rd International conference officially sponsored by Springer Germany on “Frontiers in Intelligent Computing: Theory &amp; Application (FICTA-2014)” from 14th Nov. – 15th Nov 2014 at Hotel Suryansh, Organized by BEC, Bhubaneswar</li> <li>• Participated in the Faculty Development Programme under TEQIP-II on Achieving Academic Excellence held during August 4-9, 2014 at Indian Institute of Management (IIM) Raipur.</li> <li>• Attended a programme on TECHNO VISION 2020 at Hotel New Marrion, Janpath, Bhubaneswar on July 12th and 13th 2014 which is jointly organized by BPUT, Odisha, Rourkela, CET, Bhubaneswar, VSSUT, Burla</li> <li>• Certificate received for publishing a paper in an International Journal of Recent and innovation Trends in Computing and Communication (IJRITCC) Volume 2, Issue 2 February 2014, titled “Dynamic Slice of aspect Oriented Program: A Comparative Study.</li> <li>• Attended as Accessor’s Interaction Meeting on dated 23rd -24th December 2013 at NAAC, Bangalore.</li> <li>• Certificate received for presented and published a paper in the National Seminar on “Quality Assurance in Engineering Education: Its Challenges &amp; Rewards” (SQAEEER-2013) organized by Internal Quality Assurance Cell (IQAC), DRIEMS, Tangi, Cuttack on 11th November-2013.</li> <li>• Attended a “User Conference on Effective utilization of NPTEL” on 20th September, 2013 at IC &amp; SR Auditorium, IIT Madras.</li> <li>• Attended and participated as Chief Speaker at Modern Institute of Modern Engineering and Management studies, Balasore on 22nd April 2013.</li> <li>• Attended and participated a three day faculty development programme at Microsoft India Gurgaon campus “Microsoft Faculty Connect Symposium” from June 27th – 29th, 2012, New Delhi. Sessions has conducted on Microsoft technologies on areas such as Windows Azure, Windows 8, Windows Phone, Office 365, Lync, SharePoint, Xbox 360 + Kinect technology, Accessibility etc.</li> <li>• Certificate received for published a paper in the 12th International Conference on Software Process Improvement and capability determination at the University of the Balearic Islands, Palma de Mallorca (Spain), 30 – 31 May 2012.</li> <li>• Attended and participated in Mission 10X Master Trainers Workshop on 4th and 5th Jan 2012 at Wipro, Pune to conduct training for the MxLA 2 and Advanced Workshop.</li> <li>• Attended and participated in Level-1 of the Academic Leadership Workshop for Principals of Engineering Institutions on 22nd Jan ’12 to 25th Jan ’12 at Sunflower Amphitheatre, Wipro Technologies, Manikonda, Hyderabad.</li> <li>• Attended and participated in National seminar on “Parallel and Distributed computing” , NSPDC-2011 dated 16th July 2011 at Silicon Institute of Technology, Bhubaneswar.</li> <li>• Attended a Short term course on Embedded Computing Systems: From Processor Design To Code Optimization as part of the 2011 indo-US Engineering Faculty Leadership Institute Course from 20th June to 24th June, 2011 at Madanapalle Institute of Technology &amp; science, Madanapalle, Andhra Pradesh.<br/>Resource person: Santosh Pande, Gergia Tech, USA</li> <li>• Attended and participated in Mission 10XAdvanced workshop Trainer Certification Programme</li> </ul> |
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held on 8th February 2011 at Wipro Technologies, Bangalore Center.

- Attended and participated in Mission 10X MXLA-2 Trainer Recertification Programme held on 7th February 2011 at Wipro Technologies, Bangalore Center.
- Attended and participated in Mission 10X Certification in Teaching and Learning on January 27, 2011.
- Certificate received for publishing a paper in an International Journal of Advanced Computer Science and Applications for the paper “Randomized Algorithmic Approach for Biclustering of Gene Expression Data”, December 2010.
- Attended and participated in the International Conference on “Computer Security: Issues & Solutions” (ICCS 2010) held on 25th Sept. 2010 Organized by Department of Computer Applications, RCMA, Bhubaneswar.
- Certificate received for publishing a paper in an International Journal of Advanced Computer Science and Applications for the paper “Pattern Based Subspace Clustering: A Review”, August 2010.
- Attended and participated in Mission 10X Master Trainers Programme conducted at Wipro Technologies, Bangalore Center from 19th July to 22nd July 2010.
- Short term course attended on Computer Networks as part of the Indo-US Engineering Faculty Leadership Institute from July 12 to July 16, 2010 at KIIT University, Bhubaneswar, India. Indo-US Collaboration for Engineering Education By Prasant Mohapatra, University of California Davis, USA.
- Mission 10X Learning Approach Practitioner’s Certificate for attending the supporting advanced workshop held on 4th May & 5th May 2010.
- Participated in a Mission 10X workshop conducted at College of Engineering Bhubaneswar (CEB) at Bhubaneswar from 15th February to 19th February 2010.
- Dale Carnegie Training “workshop on ‘High Impact Teaching Skills’ at College of Engineering Bhubaneswar (CEB) at Bhubaneswar from 15th & 16th of February 2010.

**Dr. M. R. Kabat**

- Applications of Neural Networks and Fuzzy Logic in Civil Engineering, U.C.E., Burla
- Communication, Signal Processing and Information Technology, U.C.E., Burla.
- Architecture, Programming and Application of Advanced Microprocessors and Microcontrollers, U.C.E., Burla.
- E-Science: Computational Grid, Infrastructure, Scientific and Engineering Application, IIT, Delhi.
- Foundation Computer Sc. Courses- An Industry Perspective, Infosys Technologies Ltd., Bhubaneswar.
- Embedded System, I.I.T, Kharagpur.
- IEEE International Advanced Computing Conference –2009.

**Dr. S. Panigrahi**

- International Conference on information system security, Jadavpur University, Kolkata 2005
- International Conference on information system security, ISI Kolkata 2006
- International Conference on information system security, University of Delhi 2007
- Workshop on Information Security 2013.
- IEEE 3<sup>rd</sup> International Advance Computing Conference (IACC-2013), Ghaziabad, India
- International Conference on Intelligent Computing, Communication & Convergence (ICCC 2014), Bhubaneswar
- 1<sup>st</sup> International conference on Computational Intelligence in data mining 2014.
- First International Conference on Computational Intelligence and Networks (CINE 2015), Bhubaneswar,
- 11<sup>th</sup> International Conference on Distributed Computing and Internet Technology (ICDCIT-2015), LNCS 8956, Springer, Pages 377–390, Bhubaneswar,
- 2<sup>nd</sup> IEEE International Conference on Advances in Computing & Communication Engineering

(ICACCE-2015), Dehradun

**Dr. H. S. Behera**

- AICTE - ISTE Short Term Training Program on “Applications of Neural Network and Fuzzy Logic in Civil Engg.”, Oct. 7th to Oct.19th, 2002, in University College of Engineering, Burla, Odisha, India.
- QIP Short Term Training Program on “*Unix Concepts & Applications*”, December 9th to December 13th, 2002, in Indian Institute of Technology, Delhi, India
- AICTE - ISTE Short-Term Course on “Molecular Computer – A New Challenge Ahead”, Dec. 16th to Dec. 29th, 2002, in College of Engineering & Technology, OUAT, Bhubaneswar, Odisha, India.
- Short-Term Course on “Applied Soft computing and Machine Intelligence”, August 9th to August 11th, 2003, in Silicon Institute of Technology, Bhubaneswar, Odisha, India.
- AICTE - ISTE Short-Term Course on “Soft Computing Methods and Their Application”, December 22nd to January 3rd, 2004, in IGIT, Sarang, Odisha, India.
- AICTE – STTP Short-Term Course on "Architecture, Programming and Application of Advanced Microprocessors & Micro controllers", March 15th to March 27th, 2004 in University College of Engineering, Burla, Odisha, India.
- Qip Short Term Course on “Scientific Computing with MATLAB” June 7th June 11th, 2004 in Indian Institute of Technology, Kanpur, India
- Qip Short Term Course on “ Software Engineering” June 14th June 18th, 2004 in Indian Institute of Technology(IIT), Khargpur, India
- National Workshop on Emerging Technologies (Soft Computing, Swarm intelligence, Time-frequency Transform, Signal processing in Electrical Power System) held from 23.03.2007 to 26/03/2007 at CEB, Bhubaneswar, India
- Campus Connect Faculty Enable Programme held from 16.11.2009 to 20.11.2009 at Infosys Tech. Pvt. Ltd., Bhubaneswar, Odisha, India

**Dr. S. Das**

- RAISE Specification Language and Duration Calculus Aug 9-20, 1999 at KIIT Collaborations with Utkal University & Macau Univ.
- Unix & C 24th Dec-4th Jan 2002, Bengal Engg. College W.B.
- Application of NN and FL in CE Oct 7-19, 2002, UCE, Burla.
- AICTE Sponsored HRD Programme Nov 22-25, 2003, BPUT & CET
- Software Engineering June 14-18, 2004, IITKGP.
- Communication for Engineers and Scientists Dec 10-15, 2004, IITKGP
- Internetworking Apr 11-16, 2005, IITKGP .
- Software Engineering Practices: Practitioner's Perspective Mar 27-29, 2006, Infosys.
- Foundation Program-Generic Courses Feb18-Mar 2, 2007, Infosys.
- Advancement on IT- Its role for Protection of Environment-Vision 2020 ,Feb 21st, 2008, REC.
- Algorithm for Bio-Informatics Mar 28-30, 2008, ITER.
- Advance Operating System Sept 5-7, 2009, TAT.
- National Workshop on Oracle DBA Sept 20-22, 2009, HI-TECH.
- FEP Nov 16-20, 2009, Infosys.
- Recent Advances in Science & Technology ( Theme : Image Processing), Feb 12-13, 2010, ABIT .
- Recent Trends in Data Warehousing and Data Mining Mar 17th, 2010, REC.
- Mission 10 x High Impact Teaching Skill Jan 3-4, 2011, Wipro.
- Mission 10 x Jan 5-7, 2011, Wipro.
- Reform of Technical Education System in Odisha : Vision-2015 May , 21st, 2012, DRIEMS.
- NS2 & Application Mar 17-20, 2012, TAT.
- Application of Soft Computing on Engineering May 20-25, 2013, SEC.

- CI Theories, Application and Future Direction Jul 12, 2013, ITER.

**Dr. R. Mohanty**

- International Conference on Applied Algorithms (ICAA), Kolkata
- International Conference on Communication, Computing and Security (ICCCS), Rourkela
- International Conference On Recent Advances In Engineering And Technology (ICRAET), Hyderabad.
- IEEE International Conference on Methods and Models in Computer Science, JNU New Delhi
- International Conference on IT and Business Intelligence (ITBI), Nagpur
- International Conference on Informatics, Cybernetics and Computer Applications (ICICCA), Bangalore
- International Symposium on Computer Engineering and Technology (ISCET), Punjab
- International Conference on Information Science and Applications (ICISA), Chennai
- the International Conference on Recent Trends in Computing and Communication (FACT), Chennai
- 16th International Conference on Advanced Computing and Communication (ADCOM), Chennai,
- National Conference on Information Communication and Networking (NCICN), Chennai
- National Conference on Advancements and Future Trends in VLSI Design and Embedded System (ATVES), Raipur
- Quality Enhancement of Engineering Education Through NPTEL, I.I.T. Kharagpur
- Faculty Enablement Program, Infosys, Bhubaneswar
- Insight – 2, Infosys, Bhubaneswar
- Microsoft .NET and C#, BPUT & Microsoft
- Teaching Methodologies and Pedagogy, CCE, IIT – Madras & NITTTR -Chennai
- Developing Multimedia Applications for Deployment over Internet and Mobile Devices, IIT – Madras, Chennai
- Bioinformatics in Genomics and Proteomics, IIT - Kharagpur
- Software Engineering, IIT - Kharagpur
- Scientific Computing with MATLAB, IIT – Kanpur
- Data Structures in C, IBM & BPUT
- Unix Concepts and Applications, IIT – Delhi
- Sun Technology – Java, Infosys, Bhubaneswar
- Participated in Microsoft Research Symposium “TechVista - 08” on “**Computing for the Future**”, Chennai.
- Participated in Research Workshop on “**Computational Complexity**” held at IMSc. Chennai.
- Participated in CLIA workshop on “**Semantic Approaches to Information Management**” held at Anna University, Chennai,
- Participated in Intel-HP workshop on “**Parallel Programming**” held at IIT, Madras,
- Presented Research paper in International Conference on Advanced Computing (ADCOM) –07 held at MIT, Chennai,
- Participated in IARCS International Conference on Foundations of Software Technology and theoretical Computer Science, India International Center, New Delhi,
- Participated in 8<sup>th</sup> International Conference on Cryptology in India (INDOCRYPT) held at IIT, Madras,
- Participated in International Symposium on Applied Algebra, Algebraic Algorithms and Error Correcting Codes (AAECC-17) held at I.I.Sc. Bangalore,

**Mr. S. P. Sahoo**

- National Level Workshop on TECHNO VISION 2020, BPUT, CET & IGIT (2014)
- Attended a programme on **Cloud Computing** at TCS Campus, Bhubaneswar on July 23<sup>th</sup> and

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| 13th 2014 which is jointly organized by BPUT, Odisha, Rourkela, CET, Bhubaneswar, VSSUT, Burla   |
| <p><b>Mr. D. C. Rao</b></p> <ul style="list-style-type: none"> <li>• FDP on “Computer Architecture”, SVNIT, Surat (2009)</li> <li>• FDP on “Introduction to MatLab Programming”, NITTTR, Chandigarh, (2012)</li> <li>• Summer School on “Network &amp; Information Security”, IITM-K, Trivandrum (2013)</li> <li>• FDP Recent trends in Advanced Computing, VSSUT (2013)</li> <li>• National Level Workshop on TECHNO VISION 2020, BPUT, CET &amp; IGIT (2014)</li> </ul>  |
| <p><b>Mr. K. K. Sahu</b></p> <ul style="list-style-type: none"> <li>• Logics And Applications of Logic (LAAL-2009), IIT Kharagpur (2009)</li> <li>• Evolutionary Optimization and Soft Computing Techniques , JITM, Paralakhemundi (2010)</li> <li>• Mission 10x, NIST, Berhampur (2010)</li> <li>• QIP Short Term Course on “Data structures and Algorithms”, IIT Guwahati (2011)</li> <li>• FDP in Entrepreneurship, EDII Ahmedabad (2013)</li> <li>• FDP Recent trends in Advanced Computing, VSSUT (2013)</li> <li>• MDP on Statistical Modeling for Data Analysis, VGSOM IIT KGP (2013)</li> <li>• National Level Workshop on TECHNO VISION 2020, BPUT, CET &amp; IGIT (2014)</li> </ul>  |
| <p><b>Mrs. S. Behera</b></p> <ul style="list-style-type: none"> <li>• ICDCIT, KIIT, Bhubaneswar, 2009, 10, 11</li> <li>• Advanced computer n/w s by IUCEE</li> <li>• FDP Recent trends in Advanced Computing, VSSUT (2013)</li> <li>• National Level Workshop on TECHNO VISION 2020, BPUT, CET &amp; IGIT (2014)</li> </ul>  |
| <p><b>Mrs. S. Kisan</b></p> <ul style="list-style-type: none"> <li>• Recent Trends in Advanced Computing RTAC-2013, VSSUT Burla, 29<sup>th</sup> April – 11<sup>th</sup> May 2013.</li> <li>• Recent Advancement in Signal &amp; Image Processing RASIP-2013, VSSUT Burla, 24<sup>th</sup> – 29<sup>th</sup> June 2013.</li> </ul>   |
| <p><b>Mr. S. K. Panda</b></p> <ul style="list-style-type: none"> <li>• National Workshop on Software Engineering Applications for Computer Networks (SEA-CN), National Institute of Technology, Rourkela, 8<sup>th</sup> – 10<sup>th</sup> Dec 2011.</li> <li>• International Symposium on Cloud &amp; Services Computing (ISCOS), National Institute of Technology Karnataka, Surathkal, 16<sup>th</sup> – 19<sup>th</sup> Dec 2012.</li> <li>• Recent Advances in Information Technology (RAIT), Indian School of Mines, Dhanbad, 13<sup>th</sup> – 14<sup>th</sup> Mar 2014.</li> <li>• One Day Workshop on Cloud Computing and the Aneka Platform, University of Calcutta, Calcutta, 16<sup>th</sup> Apr 2014.</li> <li>• One Week Workshop on Big Data Analysis (WBDA), Kalinga Institute of Industrial Technology, Bhubaneswar, 24<sup>th</sup> – 30<sup>th</sup> Nov 2014.</li> <li>• Refresher Course on Vision and Challenges of Cloud Computing and Pervasive Computing, Dr. G. R. Damodaran College of Science, Coimbatore, 25<sup>th</sup> Feb – 9<sup>th</sup> Mar 2013.</li> <li>• Short-Term Certificate Course on Advanced Data Structures and Algorithms, Indian School of Mines, Dhanbad, 10<sup>th</sup> – 14<sup>th</sup> Jan 2014.</li> <li>• Faculty Development Programme on Architecting in Cloud, Tata Consultancy Services, Bhubaneswar, 23<sup>rd</sup> Jul 2014</li> </ul> |
| <p><b>Mr. G. Shial</b></p> <ul style="list-style-type: none"> <li>• FDP on “Adult Learning” Accenture Kolkata 2014</li> <li>• Workshop on Big Data Analytic, KIIT, Bhubaneswar 2014.</li> </ul>  |
| <p><b>Mr. G. Bhattacharjee</b></p> <ul style="list-style-type: none"> <li>• National Workshop on “RTOOST-2012”, NIT Rourkella.</li> </ul>  |
| <p><b>Mr. P. Das</b></p> <ul style="list-style-type: none"> <li>• “Emerging Trends in DBMS”, NITTR, Kolkata</li> </ul>   |

|   |
|---|
| <ul style="list-style-type: none"> <li>• “Modern computer Architectures” IIT Kharagpur Extension Counter BBSR</li> </ul>  |
| <b>Mr. A. V. Lakra</b> <ul style="list-style-type: none"> <li>• Faculty coordinator in ICCDM, VSSUT, Burla, 20th Dec 2014-21 th Dec 2014.</li> <li>• Attended workshop on Bigdata, KIIT University, 24th-30th Nov 2014</li> </ul> |

## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 90%
- percentage of students doing projects in collaboration with other universities industry / institute : 10%

## 29. Awards / recognitions received at the national and international level by

- **Faculty**

### **International**

1. International Education Excellence Award" on the occasion of Individual contribution for international integration by "Global Achievers Summit" at Bangkok (Thailand) on 11th May 2013 by **Dr. A. K. Rath**
2. Received the “Best paper award” for the contributed paper in ADCOM 2006 by **Dr. M. R. Kabat**
3. Awarded Memento and Certificate for serving as Session Chair in IC3I Mysore, by **Dr. M. R. Kabat**
4. Awarded Memento and Certificate for serving as Session Chair in ICDCIT, KIIT, Bhubaneswar by **Dr. M. R. Kabat**
5. Awarded Certificate for serving as Coach of University Teams in ACM Inter Collegiate Programming Contest of Asia Regional in 2002, 2007 by **Dr. M. R. Kabat.**
6. Awarded Memento and Certificate for serving as Session Chair in ICCIDM, 2014. (**Dr. R. Mohanty**)
7. Awarded Certificate for serving as Coach of University Teams in ACM Inter Collegiate Programming Contest of Asia Regional in 2012, 2013, 2014 by **Dr. R. Mohanty.**
8. Awarded as Best Research Paper in Computer Science Track at International Conference on Recent Advancements in Engineering and Technology, 2012 by **Dr. R. Mohanty**

### **National**

1. Research Award “Sir Thomas Ward Memorial Award” received by **Dr. C. R. Tripathy**
2. Certificate of merit for published Best Research Paper Award by Institution of Engineers, India by **Dr. C. R. Tripathy**
3. Best paper award for Published Research paper “A new fault-tolerant topology for



parallel systems” by **Dr. C. R. Tripathy**

4. Best paper award for Research paper, “A combinatorial approach to analysis the performability of multiprocessor inters connection networks, Proj. National Conference by **Dr. C. R. Tripathy**
5. Award and Certificate for delivering Prof. P. K. Kar Memorial Lecture on Medical Data Storage as Keynote Speaker at 22<sup>nd</sup> National conference of Indian Pharmacological Society, 2013 by **Dr. R. Mohanty**
6. Best Teacher award by ISTE, 2014, by **Dr. S. Das**
7. Young IT Professional Award, 2014, CSI by **Mr. P. K. Das**

- **Doctoral / post doctoral fellows**

The following Doctoral fellows are awarded Ph.D. under the guidance of Prof. C. R. Tripathy.

1. Mr. M. K. Patel
2. Mr. A. K. Samal
3. Ms. N. Adhikari
4. Ms. M. Tripathy
5. Mr. N. K. Barpanda
6. Mr. M. R. Kabat

- **Students**

1. UGC NET 2014 qualified **Mr. Tirtharaj Dash**, M.Tech CSE
2. Student member Asscoitation for Computing Machinary, **Mr. Tirtharaj Dash**, M.Tech CSE
3. ORACLE certified Associate (OCA), **Mr. Tirtharaj Dash**, M.Tech CSE
4. Rational application developer IBM RAD V6.0, **Mr. Tirtharaj Dash**, M.Tech CSE
5. Finalist in ACM international programming context of Asia region in 2012, 2013, **Mr. Tirtharaj Dash**, M.Tech CSE
6. Reviewer board member International Conference CITSA-2014, **Mr. Tirtharaj Dash**, M.Tech CSE
7. Reviewer board member of Asian Journal of Computer and information system, **Mr. Tirtharaj Dash**, M.Tech CSE
8. Best paper award in National Conference on Dynamics and Propects of Data Mining, Mr. Tirtharaj Dash, M.Tech CSE
9. First Position in Robotics organized by Rob sapiens IIT Kharagpur, by **Sudhansu Bala Das**, M.Tech 1st year CSE
10. First Position in Roboagonopsepa organized by Trident Academy of technology, BBSR, by **Sudhansu Bala Das**, M.Tech 1st year CSE
11. Second Prize in Seminar Competition about Robotics using Artificial Intelligence Technique, by **Sudhansu Bala Das**, M.Tech 1st year CSE
12. Completed training about MIS by Minister of Defense Research and Development organization (DRDO), Chandipur Balasore, by **Sudhansu Bala Das**, M.Tech 1st year CSE

13. Acheived Rajya Puraskar in Scout and Guide, by **Sudhansu Bala Das**, M.Tech 1st year CSE
14. Technical Analysis on Financial Forecasting: by **S.Gopal Krishna Patro**, Pragyana Parimita Sahoo, Ipsita Panda, Kishore Kumar Sahu, International Journal of Computer Sciences and Engineering, Volume-03, Issue-01, Page No (1-6), Jan-2015, E-ISSN:2347-26932. , M.Tech 1st year ICT
15. Normalization: A Pre-processing Stage: by **S.Gopal Krishna Patro**, Kishore Kumar sahu, International Advanced Research Journal in Science, Engineering and Technology, Volume-02, Issue-03, Mar-2015, ISSN (Online):2393-8021 Attended Refresher Course/Workshop/Symposium Participation : by S.Gopal Krishna Patro, M.Tech 1st year ICT
16. Participated Science Academies Refresher course on “Recent Trends in Computer Science and Engineering: Refreshing the Young Minds” held at GNDEC, Bidar, from 10-22 March 2014.2. : by S.Gopal Krishna Patro, M.Tech 1st year ICT
17. Participated symposium on “2nd Security and Privacy Symposium” held at IIT, Kanpur from 19-22 February 2014.Attended : by **S.Gopal Krishna Patro**, M.Tech 1st year ICT
18. Organizing Member in 1st International Conference on Computational Intelligence in Data Mining “ICCIDM-2014” held at VSSUT, Burla, Odisha from 20-21 December 2014, : by **S.Gopal Krishna Patro**, M.Tech 1st year ICT

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

**International :**

| Name of Event   | Sponsoring Organisation  | Duration/ Date | No of Participants |
|---|--------------------------|----------------|--------------------|
| International Conference on Computational Intelligence in Data Mining | TEQIP CELL, VSSUT, Burla | 21-22 Dec 2014 | 250                |

**National :**

| Name of Event  | Sponsoring Organisation | Duration/ Date           | No of Participants |
|--|-------------------------|--------------------------|--------------------|
| Faculty Development Programme on Recent Trends in Advanced Computing | AICTE, New Delhi        | 29 Apr 2013 -11 May 2013 | 70                 |

**Others :**

| Name of Event  | Sponsoring Organisation          | Duration/ Date            | No of Participants |
|--|----------------------------------|---------------------------|--------------------|
| Student Workshop on Professional and Research Skills           | Alumni Association, VSSUT, Burla | 14 Sept 2014              | 530                |
| Workshop on Web Design and Ethical hacking for School Students | CSE/IT Society, VSSUT, Burla     | 18 <sup>th</sup> OCT 2014 | 350                |
| Student Workshop on Computer Security                          | CSE/IT Society, VSSUT, Burla     | OCT. 2014                 | 300                |

|                                    |                                 |          |     |
|------------------------------------|---------------------------------|----------|-----|
| Student Orientation Programme      | CSE/IT Society,<br>VSSUT, Burla | Nov 2014 | 450 |
| SRUJAN 2014 Departmental Tech Fest | CSE/IT Society,<br>VSSUT, Burla | Feb 2014 | 650 |
| SRUJAN 2013 Departmental Tech Fest | CSE/IT Society,<br>VSSUT, Burla | Feb 2013 | 600 |
| SRUJAN 2012 Departmental Tech Fest | CSE/IT Society,<br>VSSUT, Burla | Feb 2012 | 500 |
| SRUJAN 2011 Departmental Tech Fest | CSE/IT Society,<br>VSSUT, Burla | Feb 2011 | 500 |
| SRUJAN 2010 Departmental Tech Fest | CSE/IT Society,<br>VSSUT, Burla | Feb 2010 | 400 |

### 31. Code of ethics for research followed by the departments

- All the registered Ph.D research works carried out under a supervisor has a Doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinised by a plagiarism software for any malpractices.
- The M.Tech thesis work is very thoroughly examined by the concerned guide in a regular interval. The scholars progress is monitored by the academic committee one in every six months.
- The B.Tech project works are scrutinized by the concerned guide and the performance of the student is reviewed by the committee consisting of the internal examiner and the external examiner from reputed institutes or industries.

### 32. Student profile programme-wise:

| Name of the Programme<br>(refer to question no. 4) | Applications Received | Selected |        | Pass percentage |        |
|--|-----------------------|----------|--------|-----------------|--------|
|  |                       | Male     | Female | Male            | Female |
| B.Tech in CSE                                      | 2010 - 2014           | 43       | 22     | 100             | 100    |
|  | 2009 - 2013           | 35       | 26     | 100             | 100    |
|  | 2008 - 2012           | 65       | 30     | 100             | 100    |
|  | 2007 - 2011           | 22       | 11     | 100             | 100    |
|  | 2006 - 2010           | 23       | 12     | 100             | 100    |
| B.Tech in IT                                       | 2010 - 2014           | 23       | 21     | 100             | 100    |
|  | 2009 - 2013           | 27       | 16     | 100             | 100    |
|  | 2008 - 2012           | 29       | 12     | 100             | 100    |
|  | 2007 - 2011           | 24       | 12     | 100             | 100    |
|  | 2006 - 2010           | 22       | 13     | 100             | 100    |
| M.Tech in CS                                       | 2012 - 2014           | 60       | 11     | 6               | 100    |
|  | 2011 - 2013           | 60       | 7      | 8               | 100    |
|  | 2010 - 2012           | 70       | 3      | 1               | 100    |
|  | 2008 - 2010           | 20       | 2      | 2               | 100    |

|               |           |    |   |    |                 |
|---------------|-----------|----|---|----|-----------------|
| M.Tech in ICT | 2014-2016 | 60 | 3 | 7  | Passing in 2016 |
|               | 2013-2015 | 75 | 2 | 10 | Passing in 2015 |
| Ph.D in CSE   | 2014-2015 | 53 | 7 | 3  |                 |
|               | 2013-2014 | 44 | 5 | 1  |                 |
|               | 2012-2013 | 41 | 5 | 0  |                 |
|               | 2011-2012 | 34 | 6 | 2  |                 |

### 33. Diversity of students

| Name of the Programme<br>(refer to question no. 4) |             | % of Students<br>from the<br>Same<br>University | % of students<br>from other<br>universities<br>within the State | % of students<br>from universities<br>outside the State | % of<br>students<br>From other<br>countries |
|--|-------------|---|---|---|---|
| B.Tech in<br>CSE                                   | 2010 – 2014 | Nil   | 98  | 2   | 0   |
|  | 2009 – 2013 |   |   |   |   |
|  | 2008 – 2012 |   |   |   |   |
|  | 2007 – 2011 |   |   |   |   |
|  | 2006 – 2010 |   |   |   |   |
| B.Tech in<br>IT                                    | 2010 – 2014 | Nil   | 97  | 3   | 0   |
|  | 2009 – 2013 |   |   |   |   |
|  | 2008 – 2012 |   |   |   |   |
|  | 2007 – 2011 |   |   |   |   |
|  | 2006 – 2010 |   |   |   |   |
| M.Tech in<br>CS                                    | 2012 – 2014 | 6   | 94  | 0   | 0   |
|  | 2011 – 2013 | 10  | 90  | 0   | 0   |
|  | 2010 – 2012 | 10  | 90  | 0   | 0   |
|  | 2009 – 2011 | 6   | 94  | 0   | 0   |
|  | 2008 – 2010 | 0   | 94  | 6   | 0   |
| M.Tech in<br>ICT                                   | 2014 – 2016 | 0   | 100   | 0   | 0   |
|  | 2013 – 2015 | 9   | 81  | 0   | 0   |
| Ph.D in<br>CSE                                     |             | 20  | 80  | 0   | 0   |

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Session | GATE | CAT |
|---------|------|-----|
| 2014    | 10   | 01  |
| 2013    | 07   | 02  |
| 2012    | 08   | 01  |
| 2011    | 05   | 01  |
| 2010    | 05   | 01  |

### 35. Student progression

| Student progression    | Percentage against enrolled |
|------------------------|-----------------------------|
| UG to PG               | 10%                         |
| PG to M.Phil.          | Nil                         |
| PG to Ph.D.            | 40%                         |
| Ph.D. to Post-Doctoral | Nil                         |
| Employed               |                             |
| • Campus selection     | 70%                         |

|                                 |     |
|---------------------------------|-----|
| • Other than campus recruitment | 20% |
| Entrepreneurs                   | 1%  |

### 36. Diversity of staff

| Faculty who are                          | Percentage |
|--|------------|
| graduates of the same university         | 37.22      |
| from other universities within the State | 52.77      |
| from universities from other States      | 10         |
| from universities outside the country    | Nil        |

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Name                 | Degree Awarded | Year |
|----------------------|----------------|------|
| Dr.S. Panigrahi      | Ph.D           | 2010 |
| Dr. S. Das           | Ph.D           | 2011 |
| Dr. M. R. Kabat      | Ph.D           | 2011 |
| Dr. H. S. Behera     | Ph.D           | 2013 |
| Dr. R. Mohanty       | Ph.D           | 2014 |
| Mr. D. C. Rao        | M.Tech         | 2009 |
| Mr. K. K. Sahu       | M.Tech         | 2010 |
| Mr. P. Das           | M.Tech         | 2010 |
| Mrs. S. Kissan       | M.Tech         | 2011 |
| Mr. S. Sathu         | M.Tech         | 2012 |
| Mr. S. K. Panda      | M.Tech         | 2013 |
| Mr. G. Shial         | M.Tech         | 2013 |
| Ms. G. Bhattacharjee | M.E            | 2013 |
| Mr. A. V. Lakra      | M.Tech         | 2013 |
| Mr. S. Saurav        | M.Tech         | 2013 |

### 38. Present details of departmental infrastructural facilities with regard to

#### a) Library

- Departmental library has collection of 250 books

#### b) Internet facilities for staff and students

- Department provides wired and wireless connectivity for accessing internet.

#### c) Total number of class rooms

| Room description      | Usage                                    | Shared/ Exclusive | Capacity     | Rooms equipped with PC, Internet, book rack, meeting space, etc.   |
|-----------------------|--|-------------------|--------------|--|
| No. of classrooms: 03 | Classroom for 3rd & 4 <sup>th</sup> year | Exclusive         | 55.74 sq. m. | 60 seated desks, White/Black board, internet facility, facility for using projector, adequate number of fans and lights. |
| No. of classrooms:    | Classroom for 2 <sup>nd</sup>            | Shared            | 55.74 sq. m  | 60 seated desks, White/Black board, internet facility, facility for using  |

|                            |                                    |        |             |  |
|----------------------------|------------------------------------|--------|-------------|--|
| 01                         | Year                               |        |             | projector, adequate number of fans and lights.   |
| No. of classrooms: 01      | Classroom for 1 <sup>st</sup> Year | Shared | 90.74 sq. m | 60 seated desks, White/Black board, internet facility, facility for using projector, adequate number of fans and lights. |
| Department seminar hall 01 | PG Classroom                       | Shared | 30 sq. M    | 20 seated desks, White/Black board, internet facility, facility for using projector, adequate number of fans and lights. |

**d) Class rooms with ICT facility**

- One classroom with 60 seated desks, White/Black board, internet facility, facility for using projector, adequate number of fans and lights and internet facility, facility for using projector,

**e) Students' laboratories**

- Windows lab: 40 computers with internet facility, fully loaded licensed software's to facilitate all students to carry their course work. Well equipped with UPS and air condition.
- Linux PC lab: 40 computers with internet facility, fully loaded licensed software's to facilitate all students to carry their course work. Well equipped with UPS and air condition.
- Linux Networking lab: 40 computers with internet facility, fully loaded licensed software's to facilitate all students to carry their course work. Well equipped with UPS and air condition.
- Microprocessor lab: 30 computers with microprocessor simulator, proteous, Well equipped with UPS and air condition.

**f) Research laboratories**

- One research lab with 15 computers .Computers are well equipped with internet facility, loaded with the required software to carry out the respective research work.

**39. List of doctoral, post-doctoral students and Research Associates**

**a) From the host institution/university**

- |                   |                    |
|-------------------|--------------------|
| • Mr. M. R. Kabat | • Mrs. S. Archarya |
| • Mr. M. K. Patel | • Mr. D. C. Rao    |
| • Mr. S. P. Sahoo | • Mr. B. Nayak     |
| • Mrs. S. Behera  | • Mr. P. K. Das    |
| • Mr. S. Nayak    | • Mr. T. K. Samal  |
| • Mr. K. K. Sahu  |                    |

**b) From other institutions/universities**

- Mr. S. C. Nayak
- Mr. G. Vivekananda
- Ms. S. B. B. Priyadarsini
- Ms. S. Subdhi
- Mr. A. R. Brahma
- Mr. D. B. Kar
- Mr. D. K. Patel
- Mr. B. K. Mishra
- Mr. P. K. Gantayat
- Mr. S. Panigrahi
- Mr. J. P. Raut
- Mr. J. Nayak
- Mr. D. Das
- Mr. P. Mohanty
- Mr. L. Tripathy
- Mr. A. K. Bhoi
- Mr. B. R. Parida
- Mr. Baisakh
- Ms. S. Routray
- Mr. P. K. Mishra
- Mr. U. K. Jena
- Mr. C. K. Nayak
- Mr. B. Jena
- Mr. A. K. Samal
- Ms. N. Adhikari
- Ms. M. Tripathy
- Mr. N. K. Barpanda
- Mr. M. R. Kabat

**40. Number of post graduate students getting financial assistance from the university.**

| Name of the Programme |             | No. Of students |
|-----------------------|-------------|-----------------|
| M.Tech in CSE         | 2014 – 2016 | 3               |
|                       | 2013 – 2015 | 16              |
| M.Tech in ICT         | 2014 – 2016 | 0               |
|                       | 2013 – 2015 | 4               |
| Ph.D in CSE           | 2011-2015   | 7               |

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Whenever the new program is launched the justification for a new program in the assessment of the need is always considered.
- Based on the needs of the industries, the technology and the direction in which the current technologies are going collected through various magazines and personal discuss through the industry professionals. The new programs are conceded.
- The structure of the curriculum which includes the fundamental courses, professional elective courses to be introduced for the new program are discussed in the staff meeting conducted by H.O.D.
- The feedbacks from the staff are taken in to consideration before finalizing structure of the new program.
- The curriculum and detail syllabi are placed before the BOS (Board of Study) of the department consisting of Faculty members of department, Academia and Industry experts.
- Then the curriculum and the detailed syllabi are forwarded to Academic Council meeting and finally gets approved by the Board of Management.

**42. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

The faculty accountability for student achievement is depending largely on the effective delivery of the course content to the student. This is possible with the explicit instruction in a cooperative learning format, opportunities to practice the skill, frequent feedback and discussion activities. The Faculty feedback on the evaluation process is obtained once in a semester.

- We maintain a transparent evaluation system, where the students are shown and asked to sign their own answer sheet.
- We also segregate the entire faculty into various domain focus groups.
- The feedback on the evaluation process is also obtained from the domain focus group once in a semester on the attainment of the outcomes defined.
- If there are any shortcomings, suggestions will be forwarded by the Board of studies on the area to be improved.

**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Feedback from all students on their level of achievement over every PEO is collected from them regularly. Feedback are collected from the students are collected frequently throughout the year in the classroom from their faculty members.

- Feedback is also sought from the Faculty members regarding the level of attainment of educational objectives by the students.
- Based on the feedback from student, necessary actions are carried over to improve the standard of the teaching learning process.
- Feedback also help in considering the introduction / modification / upgradation of a course either theory or laboratory.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Alumni are invited as Guests of Honour for various functions organized, Resource persons for Guest lectures, Seminars, Symposia, Conferences and Motivating Talks.

- They provide valuable feedback regarding the current need of the Industry and motivate the students to take up innovative projects to foster Industry-Institute interaction.
- The Alumni also contribute to expose students to new techniques and tools as resource persons and play an effective role in donating Development Boards / kits through their employers.
- Alumni meet is conducted every year periodically. They suggest us with necessary actions to be carried over for enhancing the standard of our institution.
- Alumni also serve as members in the board of studies and recommend subjects to be included in the curriculum as required by industry.



The department has responded to such suggestions in the recent past.

**43. List the distinguished alumni of the department (maximum 10)**

| Name of the Alumni     | Year of Passing | Organization  |
|------------------------|-----------------|---|
| Prasanta Kumar Chinara | 1998 CSE        | Software Engineer, Apple, USA                             |
| SuchismitaPattnaik     | 1998 CSE        | Senior Principal Consultant, Oracle, Bangalore, India     |
| AbhijitPani            | 1998 CSE        | Senior Architect, Apple, USA                              |
| AnshumanKar            | 1998 CSE        | Strategy and Consultant Development Professional, HP, USA |
| SanatanMohanty         | 1998 CSE        | Director, AsDaq System Ltd, New Delhi                     |
| Dr. RakeshMohanty      | 1998 CSE        | Reader, VSSUT Burla                                       |
| Dr. SiddharthChoudhuri | 1999 CSE        | Software Technologist, HGST, Western Digital, USA.        |
| Dr. SubrataAcharya     | 2001 CSE        | Asst, Professor, Towson University, USA                   |
| NilayaAgrawalla        | 2002 CSE        | Executive Director, JP Morgan, Mumbai, India              |
| BiswaranjanBehera      | 2003 CSE        | Software Development Engineer, Microsoft, USA             |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

| Name of speaker      | Designation and Organization                            | Topic   | Year |
|----------------------|---|---|------|
| Er. E. Satish. Reddy | Software Engineer, IBM Hyderabad                        | Blue Star   | 2015 |
| Prof. A. Abraham     | Director MIR labs USA                                   | Data+Evolution Representations= Intelligent information systems | 2014 |
| Prof. A.K. Mohanty   | IIT Kharagpur   | Higher Studies and Research Opportunities                       | 2014 |
| Er. AtharSahab       | CEO, Vedanta Infrastructure, New Delhi                  | Enginnering and Managerial skill                                | 2014 |
| Mr. Sujit Kumar      | Executive Director and founder KalingaKusuma Foundation | A Journey from UCE to Harward and Oxford University             | 2014 |
| Prof. B. B. Biswal   | NIT, Rourkela   | Placement at VSSUT Burla  | 2014 |
| Er. J.P Nayak        | Vice President, Hindalco                                | Role of engineers in industry                                   | 2014 |
| Prof. D. Sharma      | University of Canberra, Australia                       | Knowledge Discovery for Computational Intelligence Research     | 2014 |
| P.K. Dash            | SOA, Bhubaneswar  | Swarm intelligence in Data Mining                               | 2014 |
| Prof. G. Panda       | IIT, Bhubaneswar  | Computation Intelligence: Techniques and Applications           | 2014 |
| Prof. S. Mishra      | IIT, Delhi  | Computational intelligence in                                   | 2014 |

|                          |   |   |      |
|--------------------------|---|---|------|
|                          |   | optimization methods  |      |
| Prof. D. K. Pratiharihar | IIT, Kharagpur                                | Intelligence Data Mining using computational intelligence   | 2014 |
| Prof. J. K. Mandal       | Kalyani University, Nadia                     | Computational Intelligence; Techniques and Application<br>Chaos based security and authentication | 2014 |
| Prof. R. Mall            | IIT, Kharagpur                                | QoS in Networks   | 2013 |
| Prof. B. Majhi           | NIT, Rourkela                                 | Data Mining   | 2013 |
| Prof. A. K. Turuk        | NIT, Rourkela                                 | Real time Communication   | 2013 |
| Prof. D. P. Mohapatro    | Nit, Rourkela                                 | Computing slices of object oriented and aspect oriented program                                   | 2013 |
| Prof. P. M. Khillar      | NIT, Rourkela                                 | Cloud Computing   | 2013 |
| Prof. D. Sahu            | NIT, Rourkela                                 | Image Processing and Biometrics   | 2013 |
| Er. R. K. Sahu           | Software Architect, Infosysis, Bhubaneswar    | Exploring Computer Hardware   | 2012 |
| Er. B. R. Behera         | Software Engineer, Microsoft, USA             | Job prospect and Work environment in Microsoft  | 2011 |
| Prof. A. K. Pujari       | Ex-Vice Chancellor, Sambalpur University      | Research Skills for beginners   | 2010 |
| Prof. R. N. Mohapatro    | Texas A&M University, USA                     | Embedded system and network on chip   | 2010 |
| Prof. J. K. Satpathy     | Ex-Vice Chancellor, BPUT, Rourkela            | Development Teaching skills   | 2010 |
| Dr. S. K. Sanadhya       | Research Engineers Conictiva Systems, Kolkata | Cryptography  | 2009 |
| Prof. A. K. Pradhan      | IIT, Kharagpur                                | Innovation and Creativity   | 2009 |

**45. List the teaching methods adopted by the faculty for different programmes.**

The following are the various content delivery methods considered in the program:

- Black board teaching in class rooms.
- Power point presentations/Video lectures are arranged to the students by the concerned faculty.
- Tutorial classes are conducted to improve the problem solving skills.
- Providing extra content to fill the gap between academic and industry.
- Conducting remedial classes for poor learners to improve their academic performance.
- Assignment are given to students based on the need of the topic.

- Easy access to the digitized notes of each subject from concerned faculty through website.
  - Encouraging the students to deliver a seminar on topic related to subject in the allotted period.
  - Delivering staff seminars on advanced topics.
  - Arranging workshops/guest lecturers to students by eminent personalities from academic institutions and Industry to enhance the knowledge of student.
  - Involving the students in technical exhibition to develop the application of computer science.
  - NPTEL lectures from IIT and other professors
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**
- In the beginning of each semester lecture plan of the course is delivered.
  - Continuous evaluation of students performances in theory, practical, seminar and project with feedback by faculty members for improvement.
  - Student's learning monitoring is done by assignments, test and quizzes and also linking these components with internal assessment of students which becomes the part of grade at the end of semester.
  - Review of course completion report at the end of semester.
  - Compilation and Analysis of student's Feedback.
- 47. Highlight the participation of students and faculty in extension activities.**
- The college has National Service Scheme (NSS) is aimed at including a sense of national and social responsibility and creates innumerable and invaluable opportunities to the students to apply their creative energy for social development.
  - All these units have faculty advisers who guide student members in planning and executing various service activities. Students are free to choose their preferred activity.
  - Encourage by Workshop/symposium/seminar utilize by the Social Activities.
  - Delivering guest lectures and invited talks by faculty members on diversified topic at various events.
  - Organizing workshop for high school students of the locality on web design and ethical hacking.
  - Students and faculty members of the department are engaged in teaching and mentoring poor and under privileged tribal students of local villages through a voluntary organization named "Sanskar Kendra".
- 48. Give details of "beyond syllabus scholarly activities" of the department.**
- Conducts periodic guest lectures on cutting edge technologies by inviting academicians and industry persons.
  - Conducts Workshops both for faculty and students to help in acquiring the

necessary skills for using modern tools and techniques.

- Encourage students to actively participate professional society activities ACM/IEEE/CSI.
- Conducts various activities such as
  - SRUJAN– A national level annual technical symposium.
  - SAMAVESH– An intra-department technical competition on various skills
  - Sports Meet and VSSUNT– An intra-department Extra Curricular meet to help in all round development of the students which includes sports and cultural activities.
  - EMOUVOIR- An theatrical performances and variety shows etc. which exploit and develop musical & histrionic talents of the students.
  - Technical paper presentation outside college.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- Accredited by NBA in the year 2006.
- Granted 12B status by UGC in 2012.
- Applied NBA for the year 2015 for the programmes
  - B.Tech in Computer Science
  - B.Tech in Information Technology
  - M.Tech in Computer Science and Engineering.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- By encouraging faculty to do research in thrust areas.
- The Faculty, Research Associates and PG students of our dept. are presenting their research works in conferences/publishing peer reviewed journals on various emerging issues in computing technology.
- By means of attending workshops, conferences and other FDPs
- By applying sponsored projects in new area and technology
- The department focuses mainly on modern technology centric programmes/courses.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- Best rank students within and outside the state prefers to take admission in the department.
- Excellent academic performance of the students with positive progression by means of securing University Rank and Gold medals in curricular aswellas extra curricular activites.
- Excellent Placement Record of the department students in the University.
- A significant number of qualified faculties with Ph.D degree.
- Projects are being undertaken from leading funding agencies in various research areas to pomote consultancies by inventing solution, models and process to industries and society in specific.

- Well equipped laboratory with latest software.
- Our alumni are keen in providing new and advanced techniques in the industries to the student through curriculum revision as Board of Study members of the department.

**Weakness:**

- Limited space for expansion
- Far away from cities where airport facility is available
- Less number of patents
- International collaboration with foreign universities and industries to be improved.

**Opportunities:**

- To have more sponsored research laboratory from industry
- To file more patents
- New infrastructure development.
- Improvement of Research facility and ambiance.
- Funding for organization of workshops, seminars, conferences, guest lectures and student technical symposiums to enhance professional and research skills of students as well as faculty members.
- Scope for Student's project internship in industries and national laboratories.
- Promotion of research collaboration with foreign universities.

**Challenges:**

- Students with dissimilar background.
- Balancing administrative, academic and research work.
- Inculcate ethical values in the mind of student.
- A constant change in technology that challenges the employability of the students.
- Exposing the teaching faculty to the Industrial scenario and get them trained in an industry.

**52. Future plans of the department.**

- Introduction of additional PG courses.
- To develop the department as Centre for Excellence for transformative and advance computing.
- Innovation Lab for fostering Research and Development works.
- To establish industry / academic interactions or collaborations with reputed external organizations.
- Patenting the innovative research work carried out in the department.

## EVALUATIVE REPORT OF THE DEPARTMENT

**1. Name of the Department:** Electrical Engineering Department

**2. Year of Establishment:** 1956

B.Tech. programme on Electrical and Electronics Engg. started in the year 2010

**3. Is the Department part of a School/Faculty of the university?**

Yes, the department is the part of the University.

**4. Names of Programmes / Courses offered (UG, PG, Ph.D, and Integrated Masters, Integrated Ph.D, etc.):**

The department has been offering B. Tech in Electrical Engineering since its inception. With the vision of higher study and cutting edge research, the department has first offered M. Tech. in Electrical Engineering in the specialization of Power System Engineering in the state and subsequently other specializations. The Electrical & Electronic Engineering on B.Tech programme started in the year 2010 which is running under one department. The year of establishment and student strength is as follows:

| Sl. No | Names of Programmes  | Year of Estt. | Student Strength |       |       |       |       |
|--------|--|---------------|------------------|-------|-------|-------|-------|
|        |  |               | 2014-15          | 13-14 | 12-13 | 11-12 | 10-11 |
| 1      | UG (B.Tech)-<br><b>Electrical Engineering</b>                  | 1956          | 120              | 120   | 60    | 60    | 60    |
| 2      | UG (B.Tech)-<br><b>Electrical &amp; Electronic Engineering</b> | 2010          | 60               | 60    | 30    | 30    | 30    |
| 2      | <b>PG (M.Tech.) - Electrical Engineering</b>                   |               |                  |       |       |       |       |
|        | (i) Power System Engineering                                   | 1968          | 18               | 18    | 18    | 18    | 18    |
|        | (ii) Power Electronics & Control of Drives                     | 2012          | 18               | 18    | 18    | -     | -     |
|        | (iii) Control & Instrumentation                                | 2015          | 18               | -     | -     | -     | -     |
| 3      | Ph.D ( <b>Electrical Engg</b> )                                | 2009          | -                | -     | -     | -     | -     |

### 5. Names of Interdisciplinary courses and the departments/units involved:

The department offers the following courses in first and second semester for the students of other departments of the University.

| SI No | Courses                                | Semester                         | Name of the Department          |
|-------|--|----------------------------------|---------------------------------|
| 1     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Mechanical Engg.                |
| 2     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Electronics & Telecommunication |
| 3     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Civil Engg                      |
| 4     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Production Engg                 |
| 5     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Computer Sc.& Engg              |
| 6     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Information Technology          |
| 7     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Chemical Engg                   |
| 8     | Basic Electrical Engineering           | 1 <sup>st</sup> /2 <sup>nd</sup> | Manufacturing & Material Engg   |
| 9     | Elements of Electrical Machines (EOEM) | 3 <sup>rd</sup>                  | Mechanical Engg                 |
| 10    | Elements of Electrical Machines (EOEM) | 3 <sup>rd</sup>                  | Production Engg                 |
| 11    | Control System Engineering (CSE)       | 6 <sup>th</sup>                  | Electronics & Telecommunication |
| 12    | Power electronics                      | 6 <sup>th</sup>                  | Electronics & Telecommunication |

### 6. Courses in collaboration with other universities/industries/foreign institutes:

Faculty members of the department are provided teaching-learning capabilities under faculty development programme. Various courses for the students are carried out to enhance their learning potential by organizing students short-term courses, internship, workshops, conferences, industrial visit etc. Further, we are in the process of collaboration with other Universities such as Jadavpur University, NIT Rourkela, NIT Raipur, IIT KGP, IIT Roorkee, IIT Bombay to undertake specialized courses and research. MOUs with the Industries such as HINDALCO, NALCO, OPTCL, OPGC have been undertaken and these are providing internship facility for the students.

### 7. Details of programmes discontinued, if any, with reasons: No.

### 8. Examination System: Annual/ semester/choice based credit system (programme wise):

The department has implemented Semester based CGPA credit system for UG and PG programme. The details of credit in each semester for both the programme are furnished bellows:

| UG (B.Tech.)    |        |
|-----------------|--------|
| Semester        | Credit |
| 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 28     |
| 4 <sup>th</sup> | 28     |
| 5 <sup>th</sup> | 28     |
| 6 <sup>th</sup> | 28     |
| 7 <sup>th</sup> | 28     |
| 8 <sup>th</sup> | 24     |

| PG (M.Tech.)    |        |
|-----------------|--------|
| Semester        | Credit |
| 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 15     |
| 4 <sup>th</sup> | 25     |

However, the academic council is already approved choice based credit system which will be implemented from academic session 2015-16.

### Structure of Grading of Academic Performance (UG)

| Academic Performance | Grades | Grade Points |
|----------------------|--------|--------------|
| Outstanding          | O      | 10           |
| Excellent            | E      | 9            |
| Very Good            | A      | 8            |
| Good                 | B      | 7            |
| Fair                 | C      | 6            |
| Passed               | D      | 5            |
| Failed               | F      | 2            |

| Percentage of marks           | Grade | Grade Points |
|-------------------------------|-------|--------------|
| 90% & above upto 100%         | O     | 10           |
| 80% & above but less than 90% | E     | 9            |
| 70% & above but less than 80% | A     | 8            |
| 60% & above but less than 70% | B     | 7            |
| 50% & above but less than 60% | C     | 6            |
| 35% & above but less than 50% | D     | 5            |
| Below 35%                     | F     | 2            |

### Structure of Relative Grading of Academic Performance (PG)

| Academic Performance | Grades | Grade Points |
|----------------------|--------|--------------|
| Outstanding          | O      | 10           |
| Excellent            | E      | 9            |
| Very Good            | A      | 8            |
| Good                 | B      | 7            |
| Fair                 | C      | 6            |
| Passed               | D      | 5            |
| Failed               | F      | 2            |

| Percentage of marks | Grade | Grade Points |
|---------------------|-------|--------------|
|---------------------|-------|--------------|



|                               |   |    |
|-------------------------------|---|----|
| 90% & above upto 100%         | O | 10 |
| 80% & above but less than 90% | E | 9  |
| 70% & above but less than 80% | A | 8  |
| 60% & above but less than 70% | B | 7  |
| 50% & above but less than 60% | C | 6  |
| 35% & above but less than 50% | D | 5  |
| Below 35%                     | F | 2  |

**Details of internal evaluation process**

**THEORY**

|                              |     |
|------------------------------|-----|
| <b>Mid Sem</b>               | 20  |
| <b>End Sem</b>               | 70  |
| <b>Assignment/Attendance</b> | 10  |
| <b>Total</b>                 | 100 |

**PRACTICAL**

|                       |            |
|-----------------------|------------|
| Lab Test              | 30         |
| Viva Voice            | 20         |
| Lab Record            | 20         |
| Daily Lab Performance | 20         |
| Lab Attendance        | 10         |
| <b>Total</b>          | <b>100</b> |

**Percentage of marks : ( CGPA - 0.5) x 10%**

|                   |    |    |    |    |    |    |
|-------------------|----|----|----|----|----|----|
| <b>CGPA</b>       | 10 | 9  | 8  | 7  | 6  | 5  |
| <b>Percentage</b> | 95 | 85 | 75 | 65 | 55 | 45 |

**Results**

**B.E. FIRST YEAR RESULT: SUMMER-2010**

| <b>Semester &amp; Branch</b> | <b>No.of students appeared</b> | <b>No.of students passed</b> | <b>Passed in I Division with Distinction</b> | <b>Passed in I Division</b> | <b>Passed in II Division</b> | <b>Pass %</b> | <b>Failed</b> |
|------------------------------|--------------------------------|------------------------------|--|-----------------------------|------------------------------|---------------|---------------|
| <b>FIRST YEAR</b>            |                                |                              |  |                             |                              |               |               |
| EE                           | 73                             | 73                           | 38   | 61                          | 12                           | 100           | 0             |
| <b>TOTAL</b>                 | <b>73</b>                      | <b>73</b>                    | <b>38</b>                                    | <b>61</b>                   | <b>12</b>                    | <b>100</b>    | <b>0</b>      |

**B.E. FIRST YEAR RESULT: SUMMER-2011**

| <b>FIRST YEAR</b>            |                                |                              |  |                             |                              |               |               |
|------------------------------|--------------------------------|------------------------------|--|-----------------------------|------------------------------|---------------|---------------|
| <b>Semester &amp; Branch</b> | <b>No.of students appeared</b> | <b>No.of students passed</b> | <b>Passed in I Division with Distinction</b> | <b>Passed in I Division</b> | <b>Passed in II Division</b> | <b>Pass %</b> | <b>Failed</b> |
| EE                           | 74                             | 74                           | 37   | 71                          | 3                            | 100           | 0             |
| EEE                          | 35                             | 35                           | 18   | 33                          | 2                            | 100           | 0             |
| <b>TOTAL</b>                 | 109                            | 109                          | 55   | 104                         | 5                            | 100           | 0             |

**B.E. FIRST YEAR RESULT: SUMMER-2012****(EVEN SEM) SESSION 2012-2013 - RESULT OF SUMMER- 2013 EXAMINATIONS**

| <b>I SEMESTER</b>            |                                |                              |  |                             |                                    |               |               |
|------------------------------|--------------------------------|------------------------------|--|-----------------------------|------------------------------------|---------------|---------------|
| <b>Semester &amp; Branch</b> | <b>No.of students appeared</b> | <b>No.of students passed</b> | <b>Passed in I Division with Distinction</b> | <b>Passed in I Division</b> | <b>Passed in II + III Division</b> | <b>Pass %</b> | <b>Failed</b> |
| EE                           | 74                             | 74                           | 33   | 69                          | 05                                 | 100           | 0             |
| EEE                          | 66                             | 66                           | 36   | 60                          | 6                                  | 100           | 0             |
| <b>TOTAL</b>                 | 140                            | 140                          | 69   | 129                         | 11                                 | 100           | 0             |

| <b>II SEMESTER</b>           |                                |                              |  |                             |                                    |               |               |
|------------------------------|--------------------------------|------------------------------|--|-----------------------------|------------------------------------|---------------|---------------|
| <b>Semester &amp; Branch</b> | <b>No.of students appeared</b> | <b>No.of students passed</b> | <b>Passed in I Division with Distinction</b> | <b>Passed in I Division</b> | <b>Passed in II + III Division</b> | <b>Pass %</b> | <b>Failed</b> |
| EE                           | 74                             | 74                           | 40   | 72                          | 2                                  | 100           | 0             |
| EEE                          | 66                             | 66                           | 32   | 58                          | 8                                  | 100           | 0             |
| <b>TOTAL</b>                 | 140                            | 140                          | 72   | 130                         | 10                                 | 100           | 0             |

| <b>IIISEMESTER</b>           |                                |                              |  |                             |                                    |               |               |
|------------------------------|--------------------------------|------------------------------|--|-----------------------------|------------------------------------|---------------|---------------|
| <b>Semester &amp; Branch</b> | <b>No.of students appeared</b> | <b>No.of students passed</b> | <b>Passed in I Division with Distinction</b> | <b>Passed in I Division</b> | <b>Passed in II + III Division</b> | <b>Pass %</b> | <b>Failed</b> |
| EE                           | 79                             | 79                           | 38   | 76                          | 3                                  | 100           | 0             |
| EEE                          | 39                             | 39                           | 18   | 37                          | 2                                  | 100           | 0             |
| <b>TOTAL</b>                 | 118                            | 118                          | 56   | 113                         | 5                                  | 100           | 0             |

### COMPARATIVE RESULT FOR SEMESTER IV

| BRANCH     | TOTAL APPEARED |         |         | FIRST DIV WITH DIST |         |         | FIRST DIV |         |         | SECOND DIV |         |         | Pass %  |         |         |
|------------|----------------|---------|---------|---------------------|---------|---------|-----------|---------|---------|------------|---------|---------|---------|---------|---------|
|            | 2012-13        | 2013-14 | 2014-15 | 2012-13             | 2013-14 | 2014-15 | 2012-13   | 2013-14 | 2014-15 | 2012-13    | 2013-14 | 2014-15 | 2012-13 | 2013-14 | 2014-15 |
| Electrical | 79             | 67      | 72      |                     |         |         |           |         |         |            |         |         | 99      | 99      | 99      |
| EEE        | 39             | 71      | 63      |                     |         |         |           |         |         |            |         |         | 99      | 97      | 99      |

### COMPARATIVE RESULT FOR SEMESTER V

| BRANCH | TOTAL APPEARED |         |         | FIRST DIV WITH DIST |         |         | FIRST DIV |         |         | SECOND DIV |         |         | Pass %  |         |         |
|--------|----------------|---------|---------|---------------------|---------|---------|-----------|---------|---------|------------|---------|---------|---------|---------|---------|
|        | 2012-13        | 2013-14 | 2014-15 | 2012-13             | 2013-14 | 2014-15 | 2012-13   | 2013-14 | 2014-15 | 2012-13    | 2013-14 | 2014-15 | 2012-13 | 2013-14 | 2014-15 |
| EE     | 79             | 73      |         | 23                  |         |         | 34        |         |         | 17         |         |         | 97.4    | 98      |         |
| EEE    | 39             | 69      |         |                     |         |         |           |         |         |            |         |         | 97.5    | 98.5    |         |

### COMPARATIVE RESULT FOR SEMESTER VII YEAR

| BRANCH | TOTAL APPEARED |         |         | FIRST DIV WITH DIST |         |         | FIRST DIV |         |         | SECOND DIV |         |         | Pass %  |         |         |
|--------|----------------|---------|---------|---------------------|---------|---------|-----------|---------|---------|------------|---------|---------|---------|---------|---------|
|        | 2012-13        | 2013-14 | 2014-15 | 2012-13             | 2013-14 | 2014-15 | 2012-13   | 2013-14 | 2014-15 | 2012-13    | 2013-14 | 2014-15 | 2012-13 | 2013-14 | 2014-15 |
| EE     | 77             | 79      | 76      | 13                  | 22      |         | 28        | 30      |         | 21         | 22      |         | 99      | 99      | 99      |
| EEE    |                | 39      | 72      |                     | 3       |         |           | 15      |         |            | 12      |         |         | 97.5    | 97.2    |

### COMPARATIVE RESULT FOR SEMESTER VIII

| BRANCH | TOTAL APPEARED |         |         | FIRST DIV WITH DIST |         |         | FIRST DIV |         |         | SECOND DIV |         |         | Pass %  |         |         |
|--------|----------------|---------|---------|---------------------|---------|---------|-----------|---------|---------|------------|---------|---------|---------|---------|---------|
|        | 2012-13        | 2013-14 | 2014-15 | 2012-13             | 2013-14 | 2014-15 | 2012-13   | 2013-14 | 2014-15 | 2012-13    | 2013-14 | 2014-15 | 2012-13 | 2013-14 | 2014-15 |
| EE     | 75             | 79      | 80      | 10                  | 17      | 20      | 28        | 33      | 41      | 25         | 18      | 14      | 100     | 99      | 98.7    |
| EEE    |                | 39      |         |                     | 7       |         |           | 17      |         |            | 10      |         |         | 99      |         |

### 9. Participation of the department in the courses offered by other departments:

The following courses are offered to this department by other department :

| SI No | Course                       | Semester        | Name of the Department  | UG/PG |
|-------|------------------------------|-----------------|-------------------------|-------|
| 1     | Mathematics-1                | 1st             | Mathematics             | UG    |
| 2     | Physics                      | 1st             | Physics                 | UG    |
| 3     | Engineering Mechanics        | 1st             | ME                      | UG    |
| 4     | English for communication    | 1st             | Humanities              | UG    |
| 5     | Mathematics-II               | 2nd             | Mathematics             | UG    |
| 6     | Chemistry                    | 2nd             | Chemistry               | UG    |
| 7     | Programming & Data Structure | 2nd             | Computer Science & Engg | UG    |
| 8     | Basic electronics            | 2nd             | ETC                     | UG    |
| 9     | Mathematics III              | 3rd             | Mathematics             | UG    |
| 10    | OB                           | 3rd             | Humanities              | UG    |
| 11    | Object Oriented Programming  | 3rd             | Computer Science & Engg | UG    |
| 12    | Mathematics IV               | 4 <sup>th</sup> | Mathematics             | UG    |

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

The sanctioned faculty strength of the department including both EE and EEE is **43**. At present the department has **29** faculty. The University has recently made an advertisement to fill up the remaining vacant posts for smooth running of the department.

| Teaching post        | Sanctioned | Filled | Actual (including CAS & MPS) |
|----------------------|------------|--------|------------------------------|
| Professors           | 5          | 04     | NIL                          |
| Associate Professors | 12         | 01     | NIL                          |
| Assistant Professors | 26         | 24     | NIL                          |
| *Others              | -          | -      | -                            |

\*It has already been advertised to fill up number of vacancies.

| Regular Faculty | Adhoc Faculty | Faculty on contract basis | Total number of faculty |
|-----------------|---------------|---------------------------|-------------------------|
| 29              | 0             | 0                         | 29                      |

| Sr. No. | Department/School | % of Faculty From the same university | % of Faculty from other universities within the state | % of Faculty from universities outside the state | % of Faculty from other countries |
|---------|-------------------|---------------------------------------|---|--|-----------------------------------|
| 1.      | EE,&EEE           | 17.40                                 | 60.86   | 21.74  | nil                               |

### Regular Faculty Members (2011-2015)

| No. of Regular Faculty members appointed in the last four years |         |                        |
|---|---------|------------------------|
| Sr.No.  | Session | No. of Faculty Members |
| 1   | 2014-15 | 11                     |
| 2   | 2013-14 | 0                      |
| 3   | 2012-13 | 8                      |
| 4   | 2011-12 | 0                      |

#### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

The department has at present 29 faculties; out of which 10 faculties are having PhD and rest are having M.Tech qualification. One faculty submitted and one faculty is going to submit his thesis within one month. Rests are perusing Ph.D in the department.

| Name                 | Qualification | Designation         | Specialization  | Experience (Years) | No.of M.Tech Guided | No. of Ph.D. Students Guided / Guiding |
|----------------------|---------------|---------------------|---|--------------------|---------------------|--|
| Prof.(Dr) B. B. Pati | Ph. D         | Professor           | Control system, High Voltage Engg.  | 27                 | 06                  | 2/4                                    |
| Prof.(Dr) P.K. Hota  | Ph. D         | Professor           | Power System Engineering, Soft Computing Applications, Microprocessors & Microcontrollers | 29                 | 4                   | 2/7                                    |
| Prof. (Dr) P.K. Modi | Ph. D         | Professor           | Power System Operation & Planning, Power System Optimization, Soft Computing Application  | 28                 | 14                  | 0/2                                    |
| Prpf.(Dr)S. Panda    | Ph. D         | Professor           | Power System Engineering.   | 3                  | 8                   | 3/3                                    |
| Dr.R.K.Sahu          | Ph. D         | Associate Professor | Intelligent Control and Renewable Energy.   | 6                  | 8                   | 0/4                                    |
| Dr.M. Tripathy       | Ph. D         | Assistant Professor | Power System dynamics, Intelligent technique based Optimization and Control               | 9                  | 7                   | 0/2                                    |
| Dr.A.K. Barisal      | Ph. D         | Assistant Professor | Power System Engineering  | 9                  | 10                  | 0/2                                    |
| Mrs.S.Behera         | M. Tech       | Assistant Professor | Power System  | 13                 | 9                   |  |
| Mr.B.K.Rana          | M. Tech       | Assistant Professor | Real time hardware and software   | 9                  | 4                   |  |
| Mrs.B.               | M. Tech       | Assistant           | Power System  | 9                  | 10                  |  |

|                           |          |                     |   |   |   |     |
|---------------------------|----------|---------------------|---|---|---|-----|
| Mohanty                   |          | Professor           |   |   |   |     |
| Mr.B.D.Rout               | M. Tech  | Assistant Professor | Control System, Power Electronics and Drive   | 4 | 5 |     |
| Ms.M.Mishra               | M. Tech  | Assistant Professor | Power Distribution System Planning & Contro   | 3 |   |     |
| Mr.D.K.Lal                | M. Tech  | Assistant Professor | Computer Modeling, Simulation and Analysis of Electrical Power Systems, Renewable Energy Technologies | 3 | 3 |     |
| Mr.R.C .Prusty            | M .Tech  | Assistant Professor | Power System  | 3 | 2 |     |
| Ms. Sarmila Garnaik       | M. Tech  | Assistant Professor | VLSI Design, Digital Signal Processing  | 3 | 1 |     |
| Mr. Lingraj Dora          | M. Tech  | Assistant Professor | Digital Image Processing, Pattern Recognition   | 3 |   |     |
| Ms. Sasmita Behera        | M. Tech  | Assistant Professor | Power System Analysis   | 3 | 3 |     |
| Mr. Bibhuti Prasad Sahoo  | M. Tech  | Assistant Professor | Digital Image Processing  | 2 | 1 |     |
| Ms. Rosy Pradhan          | M. Tech  | Assistant Professor | Control and Automation  | 1 |   |     |
| Mr. Rajat Kanti Samal     | M. Tech  | Assistant Professor | Hydroelectric Systems, Sustainable Energy   | 1 |   |     |
| Mr. Pallav Dutta          | M. Tech  | Assistant Professor | Electrical Machine  | 1 |   |     |
| Ms. Rumpa Saha            | M. Tech  | Assistant Professor | Electrical Machine  | 1 |   |     |
| Dr. Raseswari Pradhan     | Ph. D    | Assistant Professor | Control System  | 1 |   | 0/1 |
| Dr. S. K. Pradhan         | Ph. D    | Assistant Professor | Control and Automation  | 1 |   |     |
| Ms. Bineeta Soreng        | M. Tech  | Assistant Professor | VLSI Design and Embedded System   | 1 |   |     |
| Ms. Debidasi Mohanty      | M. Tech  | Assistant Professor | Power System Engineering  | 1 |   |     |
| Mr. Prasanta Kumar Parida | M. Tech  | Assistant Professor | Communication System Engineering  | 1 |   |     |
| Ms. Nutan Saha            | M. Tech. | Assistant Professor | Power Electronics   | 1 |   |     |
| Dr. Papia Ray             | Ph. D    | Assistant Professor | Power Systems   | 1 |   | 0/1 |

### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors.

The department arranges the meeting regularly by inviting senior visiting professors to have an interaction with faculties and students. They are invited in workshops/FDPs/conferences conducted by the department. The list of professors along with their organization who visited the department is furnished below:

| SI No | Name                | Organization                |
|-------|---------------------|-----------------------------|
| 1     | Dr. P.C.Panda       | NIT, Rourkela               |
| 2     | Dr. S.K.Sanyal      | SOA,University              |
| 3     | Dr. A.K.Panda       | NIT, Rourkela               |
| 4     | Dr.A. Pradhan       | IIT Kharagpur               |
| 5     | Dr. S. Mishra       | IIT,Delhi                   |
| 6     | Dr. B. K. Panigrahi | IIT Delhi                   |
| 7     | Er. P. K. Pradhan   | Commercial director, Gridco |
| 8     | Prof. S.K. Panda    | NUS, Singapore              |
| 9     | Dr. B. Panigrahi    | IGIT,Sarang                 |
| 10    | Dr. S. Behera       | CET,BBSR                    |

### 13. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

There is no temporary faculty taking theory classes. However, the PG and Ph.D scholars are allotted the practical classes with regular faculties for UG course only.

### 14. Student -Teacher Ratio (programme wise)

UG: 15:1; PG: 12:1

### 15. Number of academic support staff (technical) and administrative staff; sanctioned and filled

|                            | Sanctioned | Filled |
|----------------------------|------------|--------|
| Supporting Technical staff | 07         | 04     |
| Administrative staff       | 05         | 05     |

### 16. Research thrust areas as recognized by major funding agencies:

The faculties and students of the Department conduct major research in the laboratories of the department. The research thrust areas recognized by funding agencies are as follows:

- Restructuring of Electrical Power system and de-regulation
- Distributed generation and non-conventional Energy Sources
- Hybrid generation Systems
- Control of Autonomous Under Water Vehicle
- Fractional Order Control

- Virtual and Bio-medical Instrumentation
- Electrical Machines and Drives
- Power Electronics
- Power System Stability and control
- Soft Computing Applications for optimization
- High Voltage Engineering
- Instrumentation and Control

The department generates revenues as well as gives free consultancy to the nearby industries by using equipments from laboratories from above thrust areas.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

| Sl. No | Name of Faculty  | Name of Project   | National/<br>Int. funding<br>Agency | Grants<br>Received<br>(Rs.) | Sanctioned<br>Year |
|--------|------------------|---|-------------------------------------|-----------------------------|--------------------|
| 1      | Prof. B. B. Pati | Transient Stability analysis and control of power systems with excitation control | AICTE                               | 7.5 lakhs                   | 2012               |

Apart from above, the department has been recognized as “Centre of Excellence” by the Govt. of Odisha and received funding of Rupees 10Lakhs in the academic year 2014-15 and UGC sanctioned Rs. 5 Lakhs for the laboratory development of EE & EEE department. Some of our faculty members have applied for the project

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration:**

The department is already involved in conducting collaborative projects with IIT Bombay, Jadavpur University, NIT Rourkela, IIT Bhubaneswar, Sambalpur University etc. In order to boost more collaborative research projects, Department is in a process to sign MoU with technical institutions and organization like Mahanadi Coalfields Limited, Sambalpur, HINDALCO,WESCO etc. The department has collaborated with Mahindra Satyam on grid management.

**b) International collaboration:**

The department is also trying hard to initiate collaborative projects with global organization.



**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

| Sl No | Name of the Project  | Funding Agency | Principal Investigator     | Sanctioned Amount In Lakhs | Year of Sanctioned |
|-------|--|----------------|----------------------------|----------------------------|--------------------|
| 1     | Modernisation Of Power System Lab  | MHRD           | Dr.S.K. Sanyal             | 10.0                       | 1982-83            |
| 2     | Modernisation Of Instrumentation And Control Lab   | MHRD           | Dr.S.K. Sanyal             | 15.0                       | 1989-90            |
| 3     | Application Of CNN To AL & Neural Networks   | MHRD           | Dr.S. Prusty & S.K. Sanyal | 6.0                        | 1992-93            |
| 4     | Modernisation Of High Voltage Lab  | AICTE          | Dr. M.V.S.Rao              | 9.0                        | 1995-96            |
| 5     | Modernisation Of Power Electronics Lab   | AICTE          | Dr. N.Meher                | 12.0                       | 1995-96            |
| 6     | Modernisation Of High Voltage Lab  | AICTE          | Dr. S.K.Sanyal             | 8.0                        | 1996-97            |
| 7     | Intelligent Soft Computing Approach To Power System Operation &Control                           | AICTE          | Dr. P.K.Hota               | 9.0                        | 2000-01            |
| 8     | Modernisation Of High Voltage Lab  | AICTE          | Dr. S.K.Sanyal             | 5.0                        | 2000-01            |
| 9     | Application Of Advanced Signal Processing Techniques To Fault Diagnosis Of Power System Elements | AICTE          | Dr. A. K.Pradhan           | 3.5                        | 2001-02            |
| 10    | Power Quality Improvement Of Distribution System   | AICTE          | Dr.S.Mishra                | 3.0                        | 2001-02            |
| 11    | Robust Coordinated Approach For AVR And PSS Design   | AICTE          | Dr. B. B. Pati             | 5.0                        | 2001-02            |
| 12    | Developing Intelligence Techniques For Power Quality Improvements                                | DST            | Dr. S. Mishra              | 5.0                        | 2001-02            |
| 13    | Modernisation Of Power Electronics Drives Lab  | AICTE          | Dr. P.K. Hota              | 12.0                       | 2002-03            |
| 14    | Modernisation Of High Voltage Lab  | AICTE          | Dr. B.B. Pati              | 10.0                       | 2006-07            |
| 15    | Studies Of Modern Control Technique &Their Utilities In Electrical Power System                  | AICTE          | Dr. S. Behera              | 3.0                        | 2007-08            |
| 16    | Transient Stability Analysis And Control Of Power Systems With Excitation Control                | AICTE          | Dr. B.B. Pati              | 7.5 (In Progress)          | 2012-13            |

**20. Research facility / centre with**

- **State recognition:** The government of odisha has recognized the department as centre of excellence. The department is keenly involved in consultancy works offered by various state govt. agencies, private sector organizations.

- **National recognition:** The department is also recognized nationally in the research areas such as electrical machines & drives, power electronics, power systems stability & Control and control systems. The department accepts the challenges in solving various critical problems from National level Industry like NALCO, NTPC, HINDALCO, OHPC , OPTCL , INDIAN Oil Ltd. Etc.
- **International recognition:** The department is actively considering the proposals received from other international organization to sign MoUs to initiate both faculty and student interchange programs.

## 21. Special research laboratories sponsored by / created by industry or corporate bodies

The department is inviting the industries expert for various programmes such as workshops, seminars and conferences. The experts shares their views on recent issues seen in various industries. To cope-up with the issues the department is trying to augment the research laboratory in collaboration with global institute and the industrial organization such as MCL, HINDALCO, L&T, OHPC, GRIDCO, OPTCL etc.

## 22. Publications (2011 to 2015)

The faculties has published **129** nos of papers in the journals and **174** nos in conferences. The detail numbers of publication of each faculty is furnished below:

### Conferences:

| Sl.No | Name of The Faculty      | Number of National/International conference |         |         |         |         |
|-------|--------------------------|---|---------|---------|---------|---------|
|       |                          | 2014-15                                     | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| 1     | Prof.(Dr) B. B. Pati     | 1   | 12      | 1       | 6       | 5       |
| 2     | Prof.(Dr) P.K. Hota      | 6   | 8       | 6       | 4       | 1       |
| 3     | Prof. (Dr) P.K.Modi      |   |         |         |         |         |
| 4     | Prpf.(Dr)S.Panda         | 3   | 3       | 1       | 3       | 3       |
| 5     | Dr.R.K.Sahu              | 7   | 6       | 3       | 2       |         |
| 6     | Dr.M.Tripathy            |   |         |         |         |         |
| 7     | Dr.A.K.Barisal           | 12  | 4       | 7       | 2       |         |
| 8     | Mrs.S.Behera             | 1   | 3       | 2       | 1       |         |
| 9     | Mr.B.K.Rana              |   |         |         |         |         |
| 10    | Mrs.B.Mohanty            |   | 4       |         | 1       |         |
| 11    | Mr.B.D.Rout              |   | 1       | 1       |         |         |
| 12    | Ms.M.Mishra              | 1   | 3       | 1       |         |         |
| 13    | Mr.D.K.Lal               | 1   | 6       | 1       | 1       | 1       |
| 14    | Mr.R.C.Prusty            |   |         | 2       | 2       | 2       |
| 15    | Ms. Sarmila Garnaik      |   |         |         |         |         |
| 16    | Mr. Lingraj Dora         |   |         |         |         |         |
| 17    | Ms. Sasmita Behera       | 1   | 2       | 3       | 2       |         |
| 18    | Mr. Bibhuti Prasad Sahoo | 1   | 1       | 1       |         |         |
| 19    | Ms. Rosy Pradhan         |   | 1       |         |         |         |

|    |                           |   |   |   |   |   |
|----|---------------------------|---|---|---|---|---|
| 20 | Mr. Rajat Kanti Samal     |   |   | 1 |   |   |
| 21 | Mr. Pallav Dutta          | 1 | 1 |   |   |   |
| 22 | Ms. Rumpa Saha            |   |   |   |   |   |
| 23 | Dr. Raseswari Pradhan     |   | 1 | 2 | 1 | 2 |
| 24 | Dr. S. K. Pradhan         | 2 | 1 | 1 | 2 | 2 |
| 25 | Ms. Bineeta Soreng        |   | 1 |   |   |   |
| 26 | Ms. Debidasi Mohanty      |   |   |   |   |   |
| 27 | Mr. Prasanta Kumar Parida |   |   |   |   |   |
| 28 | Ms. Nutan Saha            |   | 1 | 2 |   |   |
| 29 | Dr. Papia Ray             | 3 |   | 1 | 1 | 1 |

### Journal (National/International)

| Name of The Faculty  | No of papers published in peer reviewed journal | Monographs | Chapters in books | Books Edited | Books with ISBN numbers with details of publishers | Number listed in international Database | Citation index range/ average | SNIP   | SJR    | Impact factor/ Avg. | h-index |
|----------------------|---|------------|-------------------|--------------|--|---|-------------------------------|--------|--------|---------------------|---------|
| Prof.(Dr) B. B. Pati | 20  |            | 2                 |              | 978-81-89897-14-4,81-89897-03-9                    |   |                               |        |        |                     |         |
| Prof.(Dr) P.K. Hota  | 17  |            |                   |              |  |   | 8.5                           |        |        |                     | 09      |
| Prof. (Dr) P.K.Modi  | 04  |            |                   |              |  |   |                               |        |        |                     |         |
| Prpf.(Dr)S. Panda    | 29  |            |                   |              |  |   | 4.9                           | 51.93  | 30.46  | 2.65                | 14      |
| Dr.R.K.Sahu          | 13  |            |                   |              |  |   | 16.92                         | 19.802 | 10.401 | 3.208               | 07      |
| Dr.M.Tripathy        | 08  |            |                   |              |  |   |                               |        |        |                     |         |
| Dr.A.K.Barisal       | 11  |            |                   |              |  |   | 28                            | 16.23  | 9.652  | 3.112               | 06      |
| Mrs.S.Behera         | 02  |            |                   |              |  |   | 5                             | 1      | 1      | 1                   | 1       |
| Mr.B.K.Rana          |   |            |                   |              |  |   |                               | 8.875  | 5.108  | 3                   |         |
| Mrs.B.Mohanty        | 08  |            |                   |              |  |   |                               |        |        |                     |         |
| Mr.B.D.Rout          | 02  |            |                   |              |  |   |                               |        |        |                     |         |
| Ms.M.Mishra          |   |            |                   |              |  |   |                               |        |        |                     |         |
| Mr.D.K.Lal           | 04  |            |                   |              |  |   | 10.                           | 2.6    | 1.8    | 2                   | 2       |

|                                    |    |  |    |  |                         |          |     |     |      |    |
|------------------------------------|----|--|----|--|-------------------------|----------|-----|-----|------|----|
|                                    |    |  |    |  |                         | 5        |     |     |      |    |
| Mr.R.C.Pru<br>sty                  |    |  |    |  |                         |          |     |     |      |    |
| Ms.<br>Sarmila<br>Garnaik          |    |  |    |  |                         |          |     |     |      |    |
| Mr. Lingraj<br>Dora                |    |  |    |  |                         |          |     |     | 4    |    |
| Ms.<br>Sasmita<br>Behera           | 1  |  |    |  |                         |          |     |     |      |    |
| Mr. Bibhuti<br>Prasad<br>Sahoo     |    |  |    |  |                         |          |     |     |      |    |
| Ms. Rosy<br>Pradhan                | 05 |  |    |  |                         |          |     |     |      | 04 |
| Mr. Rajat<br>Kanti<br>Samal        |    |  |    |  |                         |          |     |     |      |    |
| Mr. Pallav<br>Dutta                |    |  |    |  |                         |          |     |     |      |    |
| Ms. Rumpa<br>Saha                  |    |  |    |  |                         |          |     |     |      |    |
| Dr.<br>Raseswari<br>Pradhan        |    |  |    |  |                         |          |     |     |      |    |
| Dr. S. K.<br>Pradhan               | 03 |  |    |  |                         | 22/<br>8 | 6.7 | 6.1 | 2.42 | 3  |
| Ms.<br>Bineeta<br>Soreng           |    |  |    |  |                         |          |     |     |      |    |
| Ms.<br>Debidasi<br>Mohanty         |    |  |    |  |                         |          |     |     |      |    |
| Mr.<br>Prasanta<br>Kumar<br>Parida |    |  |    |  |                         |          |     |     |      |    |
| Ms. Nutan<br>Saha                  |    |  |    |  |                         |          |     |     |      |    |
| Dr. Papia<br>Ray                   | 02 |  | 01 |  | 13978-981-<br>4280-14-3 |          |     |     |      |    |

### 23. Details of patents and income generated

Department faculties are involved in project research work with Institutes like IIT Kharagpur, Jadavpur University, IIT Roorkee, NIT Rourkela, Sambalpur university etc. Few of the faculties are in a process of submitting patents.

### 24. Areas of consultancy and income generated

The department generates major revenues from the following areas and the year-wise income generation is as follows;

| SL.No | Areas   | 2014-15 | Income (Rs.) |         |         |         |
|-------|---|---------|--------------|---------|---------|---------|
|       |   |         | 2013-14      | 2012-13 | 2011-12 | 2010-11 |
| 1     | Oil Testing for different parameters (Indian Oil) | 8,000   | 8,000        | 8,000   |         |         |
| 2     | Oil Testing for different parameters (MCL)        | 15,000  | --           | --      |         |         |

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad

Department faculties are visiting both national / International laboratories / institutions like IIT Roorkee, IIT Kharagpur, IIT Madras, NIT, Trichy, IIT Mumbai, NIT Rourkela etc.

### 26. Faculty serving in

| Sl No. | Name of the Faculty  | National committees   | International committees  | Editorial Boards                              | Any other  |
|--------|----------------------|---|---|---|--|
| 01     | Prof.(Dr) B. B. Pati | Expert member AICTE   |   |   |  |
| 02     | Prof.(Dr) P.K. Hota  | Expert member AICTE   |   | International Journal of med well publication | Expert member of State Council for Technical Education & Training, member OPSC, Odisha |
| 03     | Prof. (Dr) P.K.Modi  | Expert Lecture at UGC Academic Staff College of Sambalpur University, Member of Technical Committee on e- | Rivewr of Engineering Applications of Artificial Intelligence, IEEE Trans. On Power Delivery, IEEE Trans. On Energy | Journal of CSVTU,Bhillai                      |  |

|    |                  |  |  |  |  |
|----|------------------|--|--|--|--|
|    |                  | Governance,<br>External Examineer at<br>NIT,raipur | conversion,<br>International<br>conference on power &<br>Energy organized by<br>IASTED   |  |  |
| 04 | Prpf.(Dr)S.Panda | Expert member AICTE                                | IEEE Trans. on<br>Generation<br>ransmission<br>and<br>Distribution   |  |  |
| 05 | Dr.R.K.Sahu      | Expert member AICTE                                | Reviewer of<br>International Journal<br>of Electrical Power &<br>Energy Systems,<br>Elsevier Science<br>Reviewer of<br>International Journal<br>of Electric Power<br>Components &<br>Systems, Taylor &<br>Francis<br>Reviewer of IET<br>(Generation,<br>Transmission &<br>Distributions), United<br>Kingdom<br>Reviewer of Ain<br>Shams Engineering<br>Journal, Elsevier<br>Science.<br>Session Chair and<br>Member of<br>International<br>Technical Committee<br>of 1st International<br>Conference on<br>Computational<br>Intelligence and Data<br>Mining, 19-20,<br>December/ 2014. |  |  |

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

| SL.No | Faculty recharging strategies     | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|-------|-----------------------------------|---------|---------|---------|---------|---------|
| 1     | Refresher / orientation programs  | --      | 1       | 1       | --      | 1       |
| 2     | Workshops                         | 5       | 1       | 3       | 1       | 1       |
| 3     | Training programs                 | 3       | 7       | 4       | 2       | 2       |
| 4     | UGC Sponsored project interviewer | 1       | --      | --      | --      | --      |

## 28. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 15%

## 29. Awards / recognitions received at the national and international level by Faculty/ Doctoral / post doctoral fellows/ Students

- **Doctoral:**

| Sl no | Name of the Faculty | Year/ no. of award   | Name of the Award/Recognitions   |
|-------|---------------------|--|--|
| 1     | Prof(Dr) B.B.Pati   |  | <p><b>Recognitions:</b></p> <p>1. Member of Advisory Committee of IEEE International Conference on Energy, Automation and Signal (ICEAS-2011), SOA University, Bhubaneswar, 27<sup>th</sup>-28<sup>th</sup> December/2011.</p>   |
| 2     | Prof. (Dr) P.K.Hota | 2010(7)<br>2011(1)<br>1012(1)<br>2013(1)<br>2014(3)<br>2015(1) | <p><b>Awards:</b></p> <p>Department of Power Prize, 2010,<br/>Rashtriya Gaurav Award-2010,<br/>Mother Teresa Excellence Award-2010,<br/>Institution Gold Medal-2012,<br/>Institution Gold Medal-2013,<br/>Madhusudan Memorial Award-2014,<br/>Institution Prize-2015</p> <p><b>Recognitions:</b></p> <p>2. Reviewer of International Journal of Power and Energy Systems, New ACTA Press, USA.</p> <p>3. Reviewer of International Journal of Electrical Power &amp; Energy Systems, Elsevier Science.</p> <p>4. Reviewer of International Journal of Electrical Power Systems Research,</p> |

|   |                    |  |  |
|---|--------------------|--|--|
|   |                    |  | <p>Elsevier Science.</p> <ol style="list-style-type: none"> <li>5. Reviewer of International Journal of Electric Power Components &amp; Systems, Taylor &amp; Francis.</li> <li>6. Reviewer of International Journal of Computers and Mathematics with Applications, Elsevier Science.</li> <li>7. Reviewer of Journal of Engineering Science and Technology Review.</li> <li>8. Reviewer of International Journal of Energy Sector Management, Emerald.</li> <li>9. Reviewer of IEEE Transactions on Systems, Man and Cybernetics, Part-B.</li> <li>10. Reviewer of IEEE Transactions on Evolutionary Computations.</li> <li>11. Reviewer of IET (Generation, Transmission &amp; Distributions), United Kingdom</li> <li>12. Reviewer of Ain Shams Engineering Journal, Elsevier Science.</li> <li>13. Organizing Co-Chair of International Conference of “<i>Renewable Energy Technology</i>”, December 18<sup>th</sup>-19<sup>th</sup>, 2011, organized by Interscience Institute of Management and Technology, Bhubaneswar.</li> <li>14. Session Chair of IEEE International Conference on Energy, Automation and Signal (ICEAS-2011), SOA University, Bhubaneswar, 27<sup>th</sup>-28<sup>th</sup> December/2011.</li> <li>15. Member of Advisory Committee of Two days National Workshop on “<i>Technovision-2020</i>”, Organized jointly by BPUT, Rourkela, VSSUT, Burla, CET, Bhubaneswar and IGIT, Sarang at Bhubaneswar, 12<sup>th</sup>-13<sup>th</sup> July, 2014.</li> <li>16. Session Chair and Member of International Technical Committee of 1st International Conference on Computational Intelligence and Data Mining, 19-20, December/ 2014.</li> </ol> |
| 3 | Prof (Dr) P.K.Modi |  | <p style="text-align: center;"><b>Recognitions:</b></p> <ol style="list-style-type: none"> <li>1. Reviewer of IEEE Trans on power system</li> <li>2. Reviewer of IEEE Trans on power delivery</li> <li>3. Reviewer of Engineering Applications of Artificial Intelligence</li> <li>4. Reviewer of IEEE Trans on Energy conversion</li> </ol>   |
| 4 | Prof (Dr)S. Panda  |  | <b>Recognitions:</b>   |



|   |                   |   |   |
|---|-------------------|---|---|
|   |                   |   | <ol style="list-style-type: none"> <li>1. Session Chair and Member of International Technical Committee of 1st International Conference on Computational Intelligence and Data Mining, 19-20, December/ 2014.</li> <li>2. Reviewer of Electrical power energy and power system, Elsevier</li> <li>3. Reviewer of Applied soft computing, Elsevier</li> <li>4. Reviewer of IEEE Trans on Generation, transmission and distribution</li> </ol>  |
| 5 | Dr. R.K.Sahu      | 2013                                      | <p style="text-align: center;"><b>Awards:</b><br/>Best paper award in IEEE conference</p> <p style="text-align: center;"><b>Recognitions:</b><br/>Reviewer of International Journal of Electrical Power &amp; Energy Systems, Elsevier Science</p> <p>Reviewer of International Journal of Electric Power Components &amp; Systems, Taylor &amp; Francis</p> <p>Reviewer of IET (Generation, Transmission &amp; Distributions), United Kingdom</p> <p>Reviewer of Ain Shams Engineering Journal, Elsevier Science.</p> <p style="text-align: center;">Session Chair and Member of International Technical Committee of 1st International Conference on Computational Intelligence and Data Mining, 19-20, December/ 2014.</p> |
| 6 | Dr. A.K.Barisal   | 2010 (2)<br>2011(1)<br>2012(1)<br>2015(1) | <p style="text-align: center;"><b>Awards:</b><br/>IEI young Engineer Award, Odisha<br/>Young scientist Award, IEI power prize best paper, State award, best web-shop paper award</p>  |
| 7 | Dr. S. K. Pradhan | 2007-2009(1)<br>2009-2012(1)              | <p style="text-align: center;"><b>Fellowships:</b><br/>MHRD Fellowship (Govt. of India)<br/>MHRD Institute Fellowship (Govt. of India)</p>  |

### Students:

| Sr.No. | Name of Student | Name of the Event                          | Achievement                              |
|--------|-----------------|--|--|
| 1.     | M.R.Behera      | Inter University Meet, ISM, Dhanbad (2014) | Triple Jump, All India University record |
| 2      | Sarthak Acharya | Inter University Meet, ISM, Dhanbad (2014) | Gold medal in Shot put                   |

|   |                  |  |                                    |
|---|------------------|--|------------------------------------|
| 3 | Purna Majhi      | Inter College Meet, Bhubaneswar (2013)                         | Selected for State level Athletics |
| 4 | Binamrata Mishra | Paper Presentation on Fuel Cell Innovation 2015, NIT, Rourkela | 1 <sup>st</sup> prize              |
| 5 | Ananya nayak     | Robotryst workshop, IIT Delhi-2014                             | Shortlisted in top 8 finalist      |

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

The students seminar is being done every year. However, the following conference organized by the department is given below:

**National and International Conferences organized**

| Sl.No. | Year & Date             | Name of organising Department | Theme / Title  | Sponsoring agency                          | No. of participants |
|--------|-------------------------|-------------------------------|--|--|---------------------|
| 1.     | 30. 12. 2012            | EE, Deptt                     | Recent advances in modern power system (National Conference) | Self financed (Local industry)             | 45                  |
| 2      | April, 2013             | EE, VSSUT                     | RAPEC (National Conference)                                  | TEQIP-II, VSSUT, Self and local industries | 60                  |
| 3      | 6-7, April, 2014        | EE Deptt, VSSUT               | RAIEE-2014 (National Conference)                             | TEQIP-II, VSSUT, Self                      | 55                  |
| 4      | 11. 4. 2015- 12.4. 2015 | EE & EEE                      | RACEC-15 (National Conference)                               | TEQUI-II, Self & local industries          | 50                  |

**31. Code of ethics for research followed by the departments**

All the registered Ph.D research works carried out under a supervisor has a Doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinised by a plagiarism software for any malpractices. The M.Tech and B.Tech thesis are scrutinized by the concerned guide and reviewed by the academic committee.

**32. Student profile programme-wise:**

The students who undertake the B. Tech programme in the department are being selected from

IIT-JEE main merit list conducted by CBSE. The lateral entry students who undertake the B. Tech programme in the department are being selected from OJEE merit list. The students who undertake the M. Tech programme in the department are being selected from GATE merit list. If any seat at PG level is found to be lying vacant, the seats are being offered to non-gate students strictly on merit basis.

| Name of the Course/programme UG | Applications received | Selected      | Enrolled |    | Pass percentage |    |
|---------------------------------|-----------------------|---------------|----------|----|-----------------|----|
|                                 |                       |               | *M       | *F |                 |    |
| B.Tech (2014-15)                | EE                    | IIT-JEE(Main) | 126      | 84 | 42              | -  |
|                                 | EEE                   |               | 60       | 42 | 18              | -  |
| B.Tech (2013-14)                | EE                    | IIT-JEE(Main) | 64       | 49 | 15              | 95 |
|                                 | EEE                   |               | 65       | 47 | 18              | 93 |
| B.Tech (2012-13)                | EE                    | OJEE          | 68       | 51 | 17              | 98 |
|                                 | EEE                   |               | 60       | 49 | 11              | 95 |
| B.Tech (2011-12)                | EE                    | OJEE          | 67       | 50 | 17              | 97 |
|                                 | EEE                   |               | 65       | 47 | 18              | 96 |

\*M = Male \*F = Female

| Name of the Course/programme PG | Applications received | Selected | Enrolled |    | Pass percentage |     |
|---------------------------------|-----------------------|----------|----------|----|-----------------|-----|
|                                 |                       |          | *M       | *F |                 |     |
| M.Tech(2014-15)                 | PSE                   | 200      | 16       | 10 | 06              | -   |
|                                 | PECD                  | 150      | 14       | 11 | 03              | -   |
| M.Tech (2013-14)                | PSE                   | 150      | 16       | 12 | 4               | 100 |
|                                 | PECD                  | 100      | 16       | 13 | 3               |     |
| M.Tech(2012-13)                 | PSE                   | 125      | 15       | 10 | 5               | 100 |
|                                 | PECD                  | 80       | 16       | 9  | 7               |     |
| M.Tech(2011-12)                 | PSE                   | 120      | 15       | 9  | 6               | 100 |

\*M = Male \*F = Female

| Name of the Course/programme PhD | Applications received | Selected | Enrolled |    |
|----------------------------------|-----------------------|----------|----------|----|
|                                  |                       |          | *M       | *F |
| PhD (2014-15)                    | 20                    | 6        | 3        | 3  |
| PhD (2013-14)                    | 15                    | 2        | 2        | 0  |
| PhD (2012-13)                    | 20                    | 5        | 4        | 1  |
| PhD (2011-12)                    | 26                    | 5        | 5        | 0  |
| PhD (2010-11)                    | 8                     | 1        | 0        | 1  |

### 33. Diversity of Students

Being a State Government run University, the students from the state of Odisha are only eligible

to undertake the B. Tech & M.Tech programme in the department. Only few students peruse their B.Tech programme in the department from North-East states of the country as a part of student exchange programme.

| Name of the Course | % of students from the same University | % of students from other Universities within State | % of students from other Universities outside State | % of students from abroad |
|--------------------|--|--|---|---------------------------|
| <b>UG</b>          |  |  |   |                           |
| 2014-15            | NIL                                    | 98   | 2   | NIL                       |
| 2013-14            | NIL                                    | 98   | 2   | NIL                       |
| 2012-13            | NIL                                    | 98   | 2   | NIL                       |
| 2011-12            | NIL                                    | 98   | 2   | NIL                       |
| 2010-11            | NIL                                    | 98   | 2   | NIL                       |

| Name of the Course | % of students from the same University | % of students from other Universities within State | % of students from other Universities outside State | % of students from abroad |
|--------------------|--|--|---|---------------------------|
| <b>PG</b>          |  |  |   |                           |
| 2014-15            | 15                                     | 85   | NIL   | NIL                       |
| 2013-14            | 10                                     | 90   | NIL   | NIL                       |
| 2012-13            | 6                                      | 94   | NIL   | NIL                       |
| 2011-12            | 6                                      | 94   | NIL   | NIL                       |
| 2010-11            | 6                                      | 94   | NIL   | NIL                       |

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Apart from good percentage of placement of the students in the campus, the department also encourages the students for off-campus examinations like ICS, IES, GATE etc.

| Sr. No. | Name of Programme | GATE | CAT | GMAT | GRE | TOFEL | Central Services | State Services | Defense Services | Civil Services |
|---------|-------------------|------|-----|------|-----|-------|------------------|----------------|------------------|----------------|
| 1       | 2014              | 67   | 11  | 8    | 2   | 1     | 1                | 2              | 0                | 0              |
| 2       | 2013              | 62   | 9   | 7    | 3   | 1     | 1                | 5              | 0                | 0              |
| 3       | 2012              | 59   | 7   | 7    | 1   | 1     | 3                | 10             | 0                | 0              |
| 4       | 2011              | 55   | 6   | 5    | 3   | 1     | 5                | 12             | 0                | 1              |

**35. Student progression**

|                     |                                   |
|---------------------|-----------------------------------|
| Student progression | Against % enrolled (last 4 years) |
|---------------------|-----------------------------------|

|                                  |                               |     |
|----------------------------------|-------------------------------|-----|
| UG to PG                         |                               | 7   |
| PG to M.Phil.                    |                               | NIL |
| PG to Ph.D.                      |                               | 2   |
| Ph.D. to Post-Doctoral           |                               | NIL |
| <b>Employed</b>                  | Campus selection              | 82  |
|                                  | Other than campus recruitment | 18  |
| Entrepreneurship/Self-employment |                               | NIL |

### 36. Diversity of staff

| Percentage of Faculty who are graduates  |     |
|--|-----|
| Of the same university                   | 27% |
| From other universities within the state | 49% |
| From universities from other states      | 24% |
| From universities outside the country    | Nil |

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

Eight member of internal faculties are pursuing Ph.D. in this department. One faculty member already submitted Ph.D thesis and out of 8 members, one faculty member is going to submit within 2 months.

### 38. Present details of departmental infrastructural facilities with regard to Library

There are sufficient number of class rooms as well as tutorial class room in this department with teaching adds. The department has its own Library where the departmental journal, student journal, PG and Ph.D thesis, reference books are accommodated with sitting and reading facilities. The detail of class rooms with size given:

| Description                              | White / Black Board | Computer      | Internet  |
|--|---------------------|---------------|-----------|
| 4 Class Rooms having Capacity of 80 each | Black board         |               |           |
| 2 Tutorial Rooms                         | Black board         |               |           |
| Seminar Hall                             |                     | LCD Projector | Available |
| Auditorium                               |                     |               |           |
| HOD Room for staff meeting               |                     | Available     | Available |
| 8 Faculty rooms                          |                     | Available     | Available |
| Library                                  |                     |               | Available |

#### Students' laboratories

| Curriculum Lab Description    | Exclusive use/Shared | Space, Number of Students |
|-------------------------------|----------------------|---------------------------|
| Power Electronics Lab         | Shared               | 1500 Sq ft, 30 Students   |
| Microprocessor and Drives Lab | Shared               | 1500 Sq ft, 30 Students   |

|                                 |           |                         |
|---------------------------------|-----------|-------------------------|
| Control and Instrumentation Lab | Exclusive | 1200 Sq ft, 30 Students |
| Computational Lab               | Exclusive | 1500 Sq ft, 30 Students |
| Electrical Machines Lab         | Exclusive | 5000 Sq ft, 60 Students |
| Power System Lab                | Exclusive | 1000 Sq ft, 30 Students |

### 39. List of doctoral, post-doctoral students and Research Associates

#### a) From the host Institute/universities

| Name of doctoral students | Year of award | Year of Enrollment |
|---------------------------|---------------|--------------------|
| Dr.S.Prusty               | 1971          |                    |
| Dr.S.C.Mahapatra          | 1976          |                    |
| Dr.J.K.Das                | 1979          |                    |
| Dr.S.K.Sanyal             | 1980          |                    |
| Dr.M.Panda                | 1989          |                    |
| Dr.M.V.S.Rao              | 1991          |                    |
| Dr.A.B.Dash               | 1999          |                    |
| Dr. S.Mishra              | 2002          |                    |
| Dr.A.K.Pradhan            | 2002          |                    |
| Dr.B.K.Panigrahi          | 2004          |                    |
| Dr. S.K.Dash              | 2007          |                    |
| Dr. M.Tripathy            | 2009          |                    |
| Dr.A.K.Barisal            | 2010          |                    |
| Dr.R.K.Swain              | 2011          |                    |
| Dr. (Mrs.) M.Biswal       | 2013          |                    |
| Dr. Santanu Ku. Pradhan   | 2013          |                    |
| Dr.T.K.Panigrahi          | 2014          |                    |
| Mrs. Banaja Mohanty       |               | 2009               |
| Mrs. Santi Behera         |               | 2010               |
| Mr. Ramesh Ch. Prusty     |               | 2012               |
| Mr.Umesh Rout             |               | 2012               |
| Mrs. Sasmita Behera       |               | 2012               |
| Mr. Saroj Padhan          |               | 2012               |
| Mr. Dileep Kumar Sahoo    |               | 2013               |
| Mr. Somnath Mishra        |               | 2013               |

#### b) From the other institutions/universities

| Name of doctoral students | Year of award | Year of Enrollment |
|---------------------------|---------------|--------------------|
| Dr. Papia Ray             | 2013          |                    |
| Dr. Raseswari Pradhan     | 2013          |                    |
| Mr. B.D.Rout              |               | 2011               |
| Mr. Ambarish Panda        |               | 2011               |
| Mr. Basanta Kumar Rana    |               | 2011               |

|                              |  |      |
|------------------------------|--|------|
| Mr. Narendra Kumar Yegireedy |  | 2012 |
| Mrs. Sabita Chaine           |  | 2012 |
| Mr. Deepak Kumar Lal         |  | 2013 |
| Mr. G,T.Chandra Sekhar       |  | 2013 |
| Mr. Bibhuti Prasad Sahoo     |  | 2014 |
| Mr. Debashis Mishra          |  | 2015 |
| Ms. Rosy Pradhan             |  | 2015 |

**40. Number of post graduate students getting financial assistance from the university.**

| Session | Name of scholarship | Number of students |
|---------|---------------------|--------------------|
| 2014-15 | GATE & TEQIP        | 30                 |
| 2013-14 | GATE & TEQIP        | 32                 |
| 2012-13 | GATE & TEQIP        | 10                 |
| 2011-12 | GATE & TEQIP        | 12                 |
| 2010-11 | GATE                | 12                 |

**40. Was any need assessment exercise undertaken before the development of new programme (s)? If so, highlight the methodology.**

The following steps are taken before starting the new programme.

- The department assesses the needs of the development of new programme by presenting the same before the departmental faculty meeting. The views of the faculty members based on their previous academic and industrial experience are sought by conducting mind-boggling discussions.
- Then departmental committee is constituted to ascertain the need and scope of the programme considering the market demand, status of the programme in the institutions already offering (both reputed institutions like NITs and IITs & private institutions) and opinion from stakeholders such as distinguished industry personalities, alumni, existing students etc.
- Based on the recommendation of the committee, detailed study on strength of the department to offer this programme is conducted.
- Then, a draft curriculum and syllabus is prepared by a committee comprising of faculty members with specialization in the subject programme.
- The draft curriculum is subjected to elaborate discussions in the faculty meeting for fine tuning and subsequent finalization.

- After approval from department, the draft is presented in the “Board of Studies”.
- After the approval from the Academic Council and the Board of Management the programme is offered in the Department

#### **42. Does the department obtain feedback from**

##### **a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- A regular departmental meeting is held at regular periods where all the faculty members, the senior professors shares their views on teaching-learning process
- The universities follows the transparency system by evaluating the answer scripts and shown to the students and gets checked and signed by the students. The teacher gets feedback from the student on evaluation process.
- Faculties are directly involved in the preparation of syllabus, teaching learning process and lab record and exam. answer script evaluations.
- Faculty members also represent in Board of studies and Academic council to express their feedback on both curriculum and teaching-learning process.
- Department level faculty meeting is conducted prior to Board of studies to get a feedback from faculty on curriculum, syllabus and teaching-learning process.
- Any modifications suggested by the faculty are scrutinized and accordingly appraised in the board of studies for its approval.
- Departmental Modernization Committee reviews the question paper setting process and evaluation of answer scripts. Any discrepancies found are appraised to the concerned faculty through Dean / HOD.

##### **b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The teacher gets the information inside the class-room from the students regarding the teaching-learning process and implementing after thorough discussion with the other faculties and senior professors in the departmental meeting
- The students are given opportunity to express their views on curriculum, syllabus and teaching-learning process.
- The students give their feedback at regular intervals about the course content, teaching method and evaluation process.
- The student’s feedback is considered in the performance appraisal scoring system (PASS) of the individual faculty.



- If the feedback of a faculty is not encouraging, he/she is counseled by the senior faculty, HOD and Dean.
- The students' feedback on Curriculum, Teaching learning and Evaluation are also discussed in the appropriate forums like department faculty meeting, Board of Studies, and Academic council.
- Based on the students' feedback, the curriculum and learning process is revised and revamped.

**c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

- The Department conducts regular meeting of the stakeholders like staff, students, alumni, parents, employers and look into curricular activities. The suggestions are incorporated as improvement / modification in the curriculum.
- The meeting is conducted separately by inviting the alumni , parents and feedback is taken regarding the curriculum formulation.
- Informal discussions are also made with alumni to get the input for the improvement of curriculum.

**43. List the distinguished alumni of the department**

**List the distinguished alumni of the department**

| SL No | Name of the alumni   | Designation                               | Address                       |
|-------|----------------------|---|-------------------------------|
| 1     | Er. P.K.Pradhan      | Director Commerce,<br>Gridco,Odisha       | Gridco,Odisha                 |
| 2     | Er.Ashes Padhi       | Joint (Vice President),<br>JSPL ,Raigarh  | JSPL ,Raigarh                 |
| 3     | Er. C.R. Swain       | General Manager,<br>CPP,NALCO,Angul       | CPP,NALCO,Angul               |
| 4     | Prof. J.K. Satapathy | EX. Vice Chancellor,<br>B.P.U.T Odisha,   | B.P.U.T<br>Odisha,Bhubaneswar |
| 5     | Er. Manoj K.Padhi    | Director(Material), Coast<br>Guard (H.Q.) | Govt. Of India                |
| 6     | Prof. A.Pradhan      | Professor                                 | IIT, KGP                      |
| 7     | Prof.S.Mishra        | Professor                                 | IIT, Delhi                    |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

The department conducts various workshops, seminars for the benefit of the students time to time. Some of the major events are shown in the table.

| Sl no | Name of the experts/<br>Designation | Organization  | Programmes          |
|-------|-------------------------------------|---------------|---------------------|
| 1     | Prof. A.Pradhan                     | IIT Kharagpur | Student Symposium   |
| 2     | Prof. S.Mishra                      | IIT Delhi     | National Conference |
| 3     | Prof. B.Panigrahi                   | IIT Kharagpur | Special lecture     |
| 4     | Prof. J.K.Satapathy                 | Ex. VC, BPUT  | National Conference |
| 5     | Prof. P.C.Panda                     | NIT, Rourkela | Special lecture     |
| 6     | Prof. A.Panda                       | NIT Rourkela  | Special lecture     |

**45. List the teaching methods adopted by the faculty for different programmes.**

The following teaching methods are followed:

- Based on the previous experience and available expert guidance, various teaching methods such as, Brain-storming, role-play, Black board, LCD presentation, NPTEL video lectures, Software demos, illustration with physical models, Quiz, digitized lecture notes, industrial visit, students seminars presentation and distribution of soft/hard copy of handouts/PPT are used for various programmes offered by the department.
- Advance information about topics to be taught in the next class so that the students can come prepared for active discussion with teachers.
- Providing text books and reference books for self-study.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The followings are done in the department to ensure the programme objectives:

- The examination system including, Class Tests, Quiz tests, Mid-Semester Examination, End Semester Examination, Lab test, viva voce ensure that the programme objectives and outcomes are met through periodical reviews.
- Departmental meetings are conducted at regular intervals to monitor the teaching learning process and ensure that the programme objectives and outcomes are constantly met.
- In addition, a department conducts regular meetings comprising of all the stakeholders including, students, faculty, employers, parents, alumni and industries to review the system of ensuring programme objectives and outcomes through the teaching leaning process and evaluation methods.

#### **47. Highlight the participation of students and faculty in extension activities.**

##### **Community orientation**

The department has its own registered society under which the following programmes are being organized periodically in every year where awareness is given on various social, moral, ethical principles and ways of life. Such programmes are

- Blood donation programme
- Health awareness programme
- Tree plantation
- Community Service like teaching to the poor students of the nearby village at free of cost through sanskar kendra

##### **Career orientation**

- The society of the department is organizing a national level student symposium annually where the third and final year students from different institutions inside and outside Odisha are participating and presenting the technical papers, model presentation and other curricular activities like essay writing, debate, JAM competition to excel their thought before others and built their carrier in right direction.
- The workshop, seminar, conference, FDP are also being organized every year not only for the faculties but also the students are benefited by sharing their knowledge through participation.
- Entrepreneurship programme also being done inviting the successful entrepreneur from nearby small scale and large scale industries.
- The department also arranging the programme for improving the communication skills of the students by inviting expert in this field and giving the opportunities to all pre-final and final year students GATE coaching by the departmental faculties.
- The students of the department are leading their team based on their organizational skills through cultural activities and sports activities.

#### **48. Give details of “beyond syllabus scholarly activities” of the department.**

- Professional societies such as “Electrical Engineering Society” is functioning effectively and organizes National level technical symposium, guest lectures, technical events such as model contest, poster presentation, design contest etc.
- The students are encouraged to participate in various regional level and national level technical events organized by other Institutions/universities.
- Students also organize cultural fest and literary fest every year.
- In order to apply the concepts learned, activities like model making contest, paper/poster /design contests are conducted regularly in the intra department level.

- Students also encouraged to participate in sports activities within the University and conducted by other Institutions/universities.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities like Sanskar Kendra and Promotion of computer literacy among rural people etc.
- Students are encouraged to participate in Value added programmes.
- Industrial visits are arranged regularly and in-plant training is also encouraged.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Before it turned into an University, the U.G. Programme (B. Tech in Electrical) and P.G. Programme in Power System Engineering were accredited by NBA 2009-2014. Further, the department has applied for NAAC accreditation.

- B.E. Electrical Engg. was accredited for five years w.e.f. 30.3.2006.
- M.E. Power System Engg. was accredited for five years w.e.f. 19.7.2008.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Electrical Engineering department has been serving to the nation and the people of the Electrical Engineering community since it is established in the year 1956. It is the oldest department in the state having its 12 number of laboratories, 3500 numbers of alumunies. The High voltage Engg. laboratory reflects the significance of the department as it is the oldest laboratory in the state. The alumni of the department have been chairing and discharging their duties in various prestigious organizations and institutions in this country and abroad as well. Continuous thinking process with updating knowledge raises the department not only in the areas of research activities and competition with globalisation but also shows the path for serving the social communities.

The faculty members have contributed their work towards the development of the department in the following ways:

- Teaching to UG and PG students
- Guiding the PH.D. Scholars
- Encouraging to the B.Tech students for higher study
- Guiding to B.Tech and M.Tech students in their project works
- Interacting with outside world for academic development of the department
- Giving the GATE coaching
- Taking the special attention to the academically poor students by extra classes
- Taking the assigned responsibilities given by the department

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- Very old department with highly placed alumni in various organizations and institutions across globe.
- Well qualified and experienced dedicated faculties
- Well equipped laboratories with latest software, library and internet facilities.
- Experienced supporting and non-teaching staff.
- Top ranking discipline students from OJEE
- Active student participation in curricular and extra-curricular activities
- Organizing regularly workshop/conferences/seminar
- Train the manpower for new power generation technology such as wind power, Fuel cell, Bio-gas, Solar cells
- Research expertise in the areas such as Power Systems, Industrial Automation & Control Systems, Machine Drives, Image Processing, Energy Systems, Power Electronics and Embedded Systems.
- Revenue generation from consultancies insistent

**Weakness:**

- Additional space for expansion of classrooms and laboratories.
- Airport connection is far away from the city
- Unable to fully harness the expertise of alumni

**Opportunities:**

- Industries supported laboratories
- More collaborative research work with premier research institutions / foreign universities.
- To start an interdisciplinary specialized PG. programme and research.
- To file patent of developed products / concepts / technologies.
- To start new lab for Bio-medical Instrumentation, Robotics & Automation.

**Challenges:**

- To increase the number of external funded projects and consultancy works by competing with premier institutions.
- Inculcate ethical values in the mind of students
- Changing the attitude of students towards focused learning and research.

**52. Future plans of the department.**

- To apply more project and financial assistant for research projects from DST, DRDO, ISRO organization.
- To open new M.Tech Courses such as Bio-medical Engg., System and Control Engg, Signal Processing & Application, Energy Management
- To upgrade the status of the department to be recognized as “ center of Excellence” for power & Control research at national and international level.
- To strengthen the Industry-Institute interaction by involving more consultancy work with nearby industries such as WESCO, HINDALCO, Bhusan steel plant, Vedanta Aluminum, Tata Refractories, GRIDCO,NALCO etc.
- To set-up solar cells and bio-gas power generation with the assistance from Govt. of Odisha and NTPC, BHEL industries.
- To modernize and upgrade the existing laboratories, so that, the world class level of standard can be maintained.
- Revenue generated in this process would help to convert the B.Tech & M.tech programme into a earn and learn scheme with zero admission charges.
- Department hopes to enlarge it by opening dual degrees.
- Transformatic research for other beneficiaries

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the department:** Electronics and Telecommunication Engineering
2. **Year of Establishment:** 1972
3. **Is the Department part of a School/Faculty of the university?**

This is the fourth full-fledged Department of the University according to the chronology of establishment.

4. **Names of Programmes / Courses offered (UG, PG, Ph.D., and Integrated Masters; Integrated Ph.D., etc.):**

The department offers B. Tech in Electronics and Telecommunication Engineering since its inception. Considering the need and demand, the department has subsequently offered M. Tech in Electronics and Telecommunication Engineering in three different specializations. The year of establishment and student strength are as follows:

| Sl. No | Names of Programmes           | Year of Establishment | Student Strength |       |       |       |       |
|--------|-------------------------------|-----------------------|------------------|-------|-------|-------|-------|
|        |                               |                       | 2014-15          | 13-14 | 12-13 | 11-12 | 10-11 |
| 1      | UG(B.Tech)-ETC Engineering    | 1972                  | 120              | 120   | 60    | 60    | 60    |
| 2      | PG(M.Tech)-ETC Engineering    |                       |                  |       |       |       |       |
|        | (i)Communication system Engg. | 1995                  | 18               | 18    | 18    | 18    | 18    |
|        | (ii)VLSI signal Processing    | 2012                  | 18               | 18    | 18    | -     | -     |
|        | (iii)RF and Microwave Engg.   | 2014                  | 18               | -     | -     | -     | -     |
| 3      | Ph.D. (ETC Engg.)             | 2009                  | 7                | 3     | 3     | 3     | -     |

5. **Names of Interdisciplinary courses and the departments/units involved:**

The students of the Department undertake the following courses offered by other departments of the University as follows-

| Sl. No | Course                       | Semester | Name of the Department |
|--------|------------------------------|----------|------------------------|
| 1      | Mathematics-1                | 1st      | Mathematics            |
| 2      | Physics                      | 1st      | Physics                |
| 3      | Engineering Mechanics        | 1st      | Mechanical Engineering |
| 4      | Basic Electrical Engineering | 1st      | Electrical Engineering |

|    |                              |                 |                           |
|----|------------------------------|-----------------|---------------------------|
| 5  | English for communication    | 1st             | Humanities                |
| 6  | Mathematics-II               | 2nd             | Mathematics               |
| 7  | Chemistry                    | 2nd             | Chemistry                 |
| 8  | Programming & Data Structure | 2nd             | Computer Science & Engg . |
| 9  | Mathematics III              | 3rd             | Mathematics               |
| 10 | Organizational Behavior      | 3rd             | Humanities                |
| 11 | Object Oriented Programming  | 3rd             | Computer Science & Engg.  |
| 12 | Mathematics IV               | 4 <sup>th</sup> | Mathematics               |
| 13 | Control Systems Engineering  | 6 <sup>th</sup> | Electrical Engineering    |

**6. Courses in collaboration with other universities, industries, foreign institutions etc.:-**

The department conducts various short term courses for faculties to enrich their teaching-learning capabilities under faculty development programme. Further, the department also regularly carries out various courses for the students to enhance their learning potential under different programmes like students training, internship, workshops, conferences, industrial visit etc. The MOUs to undertake specialized courses and research in collaboration with other Universities, Industries are in progress and collaborations with foreign universities are to be finalized in near future.

**7. Details of programmes discontinued, if any, with reasons: No programme has been discontinued by the department so far-NO**

**8. Examination System: Annual/ semester/choice based credit system (programme wise):**

The department has implemented Semester system for UG programme along with elective courses offered in 7<sup>th</sup> and 8<sup>th</sup> semester. The details of credit in each semester for both the programme are furnished bellows;

| <b>UG (B.Tech)</b> |        |
|--------------------|--------|
| Semester           | Credit |
| 1 <sup>st</sup>    | 28     |
| 2 <sup>nd</sup>    | 28     |
| 3 <sup>rd</sup>    | 28     |
| 4 <sup>th</sup>    | 28     |
| 5 <sup>th</sup>    | 28     |
| 6 <sup>th</sup>    | 28     |
| 7 <sup>th</sup>    | 28     |
| 8 <sup>th</sup>    | 24     |

| <b>PG (M.Tech)</b> |        |
|--------------------|--------|
| Semester           | Credit |
| 1 <sup>st</sup>    | 28     |
| 2 <sup>nd</sup>    | 28     |
| 3 <sup>rd</sup>    | 15     |
| 4 <sup>th</sup>    | 25     |



| Academic Performance | Percentage of marks           | Grades | Credit Points |
|----------------------|-------------------------------|--------|---------------|
| Outstanding          | 90% & above up to 100%        | O      | 10            |
| Excellent            | 80% & above but less than 90% | E      | 9             |
| Very Good            | 70% & above but less than 80% | A      | 8             |
| Good                 | 60% & above but less than 70% | B      | 7             |
| Fair                 | 50% & above but less than 60% | C      | 6             |
| Passed               | 35% & above but less than 50% | D      | 5             |
| Failed               | Below 35%                     | F      | 2             |

## DETAILS OF INTERNAL EVALUATION PROCESS

### THEORY

|                          |     |
|--------------------------|-----|
| Mid Semester Examination | 20  |
| End Semester Examination | 70  |
| Assignment & Attendance  | 10  |
| Total                    | 100 |

### PRACTICAL

|                              |     |
|------------------------------|-----|
| Laboratory Test              | 30  |
| Viva Voice                   | 20  |
| Laboratory Record            | 20  |
| Daily Laboratory Performance | 20  |
| Attendance                   | 10  |
| Total                        | 100 |

### Percentage of marks: (CGPA - 0.5) x 10%

|            |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|
| CGPA       | 10 | 9  | 8  | 7  | 6  | 5  |
| Percentage | 95 | 85 | 75 | 65 | 55 | 45 |

However, the academic council of the university has already approved choice based credit system which will be implemented from academic session 2015-16.

### 9. Participation of the department in the courses offered by other departments:

The faculties of the department takes the following courses for the students of other departments of the University.

| SI No | Courses                     | Semester                            | Name of the Department                           |
|-------|-----------------------------|-------------------------------------|--|
| 1     | Basic Electronics           | 1 <sup>st</sup> and 2 <sup>nd</sup> | ALL Engg. Departments                            |
| 2     | Analog Electronics Circuit  | 3 <sup>rd</sup>                     | Computer Science & Engg., Information Technology |
| 3     | Digital Electronics Circuit | 4 <sup>th</sup>                     | Computer Science & Engg., Information Technology |

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

The sanctioned faculty strength of the department is 40(forty). At present the department has 26 faculties. The University has recently made an advertisement to fill up the remaining vacant posts for smooth running of the department.

| Teaching post        | Sanctioned | Filled | Actual (including CAS & MPS) |
|----------------------|------------|--------|------------------------------|
| Professors           | 04         | 01     | NIL                          |
| Associate Professors | 11         | 06     | 02                           |
| Assistant Professors | 21         | 20     | NIL                          |
| Others               | 0          | 0      | 0                            |

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.**

The department has at present 26 faculties; out of which 9 faculties are having PhD and rest are having M.Tech./ME qualification out of which 10 are pursuing Ph.D. in the department and at other Universities. Two faculties are going to defend their thesis within very short duration of time.

| Name                       | Qualification                | Designation         | Specialization                     | No. of Years of Experience (Academic+ Industrial) | No. of Ph.D./ M.Tech Students Guided for the last 5 years |
|----------------------------|------------------------------|---------------------|------------------------------------|---|---|
| Dr. Rutuparna Panda        | PhD<br>IIT, Kharagpur        | Professor           | Communication System Engineering   | 28+0  | 8(Ph.D.)<br>30(M.Tech)                                    |
| Dr. Uma ranjan Jena        | PhD<br>Jadavpur University   | Associate Professor | Image processing & computer vision | 26+0  | 4(Ph.D.)<br>15(M.Tech)                                    |
| Dr. Nrusingha Prasad Rath  | PhD<br>Jadavpur University   | Associate Professor | Image processing & Machine vision  | 24+0  | 3(Ph.D.)<br>16(M.Tech)                                    |
| Dr. Debasis Mishra         | Ph.D.<br>Jadavpur University | Assistant Professor | Microwave Engg                     | 19+0  | 4(Ph.D.)<br>11(M.Tech)                                    |
| Dr. Biswa Binayak Mangaraj | Ph.D.<br>Jadavpur University | Assistant Professor | Microwave & communication Engg.    | 16+0  | 2(Ph.D.)<br>5(M.Tech)                                     |
| Dr. Manoranjan Pradhan     | Ph.D.<br>SU                  | Assistant Professor | Microprocessor, VLSI               | 18+0  | 3(Ph.D.)<br>6(M.Tech)                                     |
| Dr. Nilamani Bhoi          | Ph.D.<br>NIT,RKL             | Asst. Prof.         | Image processor & computer vision  | 10+0  | 4(Ph.D.)<br>6(M.Tech)                                     |

|                               |                                      |                        |  |       |                        |
|-------------------------------|--------------------------------------|------------------------|--|-------|------------------------|
| Dr. Kabiraj Sethi             | Ph.D.<br>Sambalpur University        | Asst. Prof.            | Communication<br>system Engg. &VLSI    | 14+14 | 4(Ph.D.)<br>10(M.Tech) |
| Mr. Sanjay Agrawal            | ME<br>Sambalpur University           | Asst. Prof.            | Communication<br>System Engineering    | 18    | 10(M.Tech)             |
| Mr. Hrudananda<br>Pradhan     | M Tech<br>NIT,RKL                    | Assistant<br>Professor | Microwave                              | 4.5+0 | 4(M.Tech )             |
| Ms. Diptimayee<br>Konhar      | M Tech<br>V.S.S.U.T., ODISHA         | Assistant<br>Professor | Communication<br>System Engineering    | 4+0   | 3(M.Tech )             |
| Mr. Bikramaditya<br>Das       | M Tech<br>NIT,RKL                    | Assistant<br>Professor | Wireless<br>communication &            | 4+0   | 4 (M.Tech )            |
| Mr. Suwendu<br>Narayan Mishra | M Tech<br>V.S.S.U.T., ODISHA         | Assistant<br>Professor | Communication<br>System Engineering    | 12+0  | 4 (M.Tech )            |
| Mr. Bandan<br>Ku.Bhoi         | M Tech<br>IIT,HYDERABAD              | Assistant<br>Professor | VLSI & embedded<br>system              | 4+0   | 3(M.Tech)              |
| Mr. Aditya Kumar Hota         | M Tech<br>V.S.S.U.T., ODISHA         | Asst. Prof.            | Communication<br>system Engg. &VLSI    | 8.5+0 | 3(M.Tech)              |
| Dr. Sheeja K.L                | M Tech<br>B.P.U.T., ODISHA           | Asst. Prof.            | Microwave<br>Engineering               | 2+0   | 1(M.Tech)              |
| Mr. Bijay Ku.Sa               | M Tech<br>B.P.U.T., ODISHA           | Asst. Prof.            | Signal processing                      | 02+0  | NIL                    |
| Mr. Anand Behera              | M Tech<br>B.P.U.T., ODISHA           | Asst. Prof.            | Pattern synthesis from<br>array antena | 01+0  | NIL                    |
| Ms Rasmita Sahu               | M Tech<br>B.P.U.T., ODISHA           | Asst. Prof.            | Communication<br>System Engineering    | 05+0  | NIL                    |
| Mrs. Madhusmita<br>Panda      | M Tech<br>B.P.U.T., ODISHA           | Assistant<br>Professor | Mobile communication                   | 10+0  | 2(M.Tech)              |
| Mr. Manas Ranjan Jena         | M.Tech<br>IIT KHARAGPUR              | Assistant<br>Professor | VLSI design                            | 07+0  | 4(M.Tech)              |
| Mr. Dharamvir<br>Kumar        | M Tech<br>IETE, New Delhi            | Assistant<br>Professor | VLSI design                            | 01+0  | NIL                    |
| Ms. Sangita Sa                | ME<br>IISC,BANGALORE                 | Asst. Prof.            | Wireless networking                    | 1+0   | NIL                    |
| Mrs. Sakambari<br>Mahapatra   | M Tech<br>V.S.S.U.T., ODISHA         | Assistant<br>Professor | Communication<br>System Engineering    | 1+0   | NIL                    |
| Mrs. Lopamudra<br>Ghadai      | M Tech<br>V.S.S.U.T., ODISHA         | Assistant<br>Professor | Digital signal<br>processing           | 1+0   | NIL                    |
| Mr. Ashish Ku.<br>Sharma      | M Tech<br>V.T.U Belgaum<br>Karnataka | Assistant<br>Professor | RF communication                       | 1+2   | NIL                    |

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors.

The department arranges the meeting regularly by inviting senior visiting professors to have an interaction with faculties and students. They are invited as Guest Lecturers and Examiner in the

Department. The list of Visiting Fellows along with their organization are furnished below to name a few:

| SI No | Name                   | Organization                              |
|-------|------------------------|---|
| 1     | Prof. S.K. Behera      | N.I.T, Rourkela                           |
| 2     | Prof. Ajit Kumar Panda | N.I.S.T, Berhampur                        |
| 3     | Prof. S.K Patra        | N.I.T, Rourkela                           |
| 4     | Mr. Animesh Mohanty    | Perfect VIP                               |
| 5     | Dr. S.S Pattanaik      | Former Professor N.I.T.T.T.R., Chandigarh |
| 6     | Dr. Ganapati Panda     | IIT, Bhubaneswar                          |
| 7     | Dr. P.K Das            | Ex-Professor, NIT Rourkela                |
| 8     | Dr. R.K Mishra         | Berhampur University                      |
| 9     | Mr. N. Jethi           | Prasar Bharati, Bhubaneswar               |
| 10    | Dr. G.S. Rath          | Ex-Professor, NIT, Rourkela               |
| 11    | Dr. Sukadev Meher      | NIT, Rourkela                             |

**13. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL**

**14. Student -Teacher Ratio (programme wise): UG - 16:1 & PG - 7:1**

**15. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

| Supporting staff     | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical staff      | 05         | 02     |
| Administrative staff | 02         | 02     |

**16. Research thrust areas as recognized by major funding agencies**

The faculties and students of the Department conduct major research in the laboratories of the department. The research thrust areas recognized by funding agencies are as follows:

- Signal Processing
- VLSI Design
- Wireless Communication and Robotics
- Computer Vision
- Antenna Engineering
- Bio-medical Image Processing

**17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

The department has already received more than 60 lakhs rupees in different projects which are

already completed. Presently the faculties have applied for more projects which are in a pipeline process for approval by different funding agencies.

**18. Inter-institutional collaborative projects and associated grants received:**

**a) National collaboration:**

The department is already involved in conducting collaborative projects with IIT Roorkee, IIT Kharagpur, NIT Rourkela, Jadavpur University, and Sambalpur University etc. In order to boost more collaborative research projects, Department is in a process to sign MOU with National technical institutions and organizations.

**b) International collaboration:**

The Department is in the process of signing MOUs with foreign Universities and Industries.

**19. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

| SL.NO | PROJECT TITLE   | FUNDING AGENCY | AMOUNT RECEIVED | COMPLETION YEAR |
|-------|---|----------------|-----------------|-----------------|
| 1     | Microstrip antenna design on ferrite substrate                                      | DOE, INDIA     | 20 Lakhs        | 1991            |
| 2     | Microstrip antenna design on ferrite substrate                                      | DOE, INDIA     | 10 Lakhs        | 1992            |
| 3     | Telematics  | MHRD, INDIA    | 7 Lakhs         | 1996            |
| 4     | Flexible distributed manufacturing system using LON                                 | AICTE, INDIA   | 10 Lakhs        | 2002            |
| 5     | Building cognition for intelligent robots   | AICTE ,INDIA   | 15 Lakhs        | 2003            |
| 6     | B-spline wavelet based signal processing techniques for remote sensing applications | AICTE,INDIA    | 6 Lakhs         | 2004            |
| 7     | Modernization of Communication lab.   | AICTE , INDIA  | 10 Lakhs        | 1991            |
| 8     | Modernization of Microwave lab.   | AICTE, INDIA   | 10 Lakhs        | 1994            |
| 9     | Modernization of Microprocessor lab.  | AICTE, INDIA   | 10 Lakhs        | 1995            |
| 10    | Modernization of Circuits lab.  | AICTE, INDIA   | 10 Lakhs        | 1996            |
| 11    | Modernization of Digital electronics & Instrumentation Lab.                         | AICTE, INDIA   | 10 Lakhs        | 2004            |
| 12    | Modernization of Circuits lab   | AICTE, INDIA   | 10 Lakhs        | 2005            |
| 13    | Modernization of VLSI lab   | AICTE, INDIA   | 11.5 Lakhs      | 2011            |
| 14    | Modernization of communication lab  | AICTE, INDIA   | 10 Lakhs        | 2012            |

## 20. Research Centre /facility with:

- **State recognition:** The Government of Odisha has recognized the department as a nodal center for the establishment of technology laboratory in the area of VLSI and Embedded system.
- **National recognition:** It has been recognized as the QIP Centre for Ph.D. Programme.
- **International recognition:** The department is actively considering the proposals received from other international organization to sign MOUs to initiate both faculty and student interchange programmes.

## 21. Special research laboratories sponsored by / created by industry or corporate bodies:

The department is actively engaged in conducting research in its well-equipped laboratories. Many industrial problems are solved in the department and it is yet to sponsor for other research Laboratory. The Online Image Processing facility is provided in the department.

## 22. Publications:

The faculties has published more than 95 nos. of papers in the journals and 83 nos. in conferences. The detail numbers of publication of each faculty is furnished below:

### a) Publication per faculty-

#### Total No. of National/International Conferences

| Name            | 2010-11<br>National/<br>International | 2011-12<br>National/<br>International | 2012-13<br>National/<br>International | 2013-14<br>National/<br>International | 2014-15<br>National/<br>International |
|-----------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Dr. R Panda     | 0/1                                   | 0/1                                   | 0/1                                   | 0/2                                   | 0/2                                   |
| Dr. U.R. Jena   | 0/0                                   | 1/0                                   | 0/1                                   | 1/0                                   | 0/2                                   |
| Dr. N.P. Rath   | 0/0                                   | 0/0                                   | 0/2                                   | 0/1                                   | 0/1                                   |
| Mr. S. Agrawal  | 0/1                                   | 0/1                                   | 0/1                                   | 0/2                                   | 0/1                                   |
| Dr. D. Mishra   | 0/1                                   | 0/1                                   | 0/0                                   | 0/0                                   | 0/0                                   |
| Dr.B.B.Mangaraj | 0/0                                   | 0/0                                   | 0/3                                   | 0/4                                   | 0/2                                   |
| Dr. K. Sethi    | 0/0                                   | 2/0                                   | 0/0                                   | 0/0                                   | 0/0                                   |
| Dr. N. Bhoi     | 1/1                                   | 0/1                                   | 0/1                                   | 0/1                                   | 0/3                                   |
| Dr.M.R.Pradhan  | 0/1                                   | 0/2                                   | 0/1                                   | 0/0                                   | 0/0                                   |
| Mr. H. Pradhan  | 0/0                                   | 0/0                                   | 0/3                                   | 0/2                                   | 0/1                                   |
| Ms. D. Konhar   | 0/0                                   | 0/1                                   | 0/2                                   | 0/0                                   | 0/0                                   |
| Mr. B. Das      | 0/1                                   | 0/2                                   | 0/0                                   | 0/2                                   | 0/1                                   |
| Mr.S.N.Mishra   | 0/0                                   | 0/0                                   | 0/1                                   | 0/1                                   | 0/1                                   |
| Mr. B.K. Bhoi   | 0/0                                   | 0/0                                   | 0/1                                   | 0/0                                   | 0/0                                   |
| Mr. A.K. Hota   | 0/0                                   | 0/0                                   | 0/0                                   | 0/0                                   | 0/1                                   |

|                   |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|
| Mr. M.R. Jena     | 0/0 | 1/0 | 0/1 | 0/0 | 1/0 |
| Mr. A.K. Sharma   | 0/0 | 1/0 | 0/2 | 0/2 | 0/0 |
| Mrs. R. Sahu      | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Dr. Sheeja K.L.   | 0/0 | 2/2 | 0/2 | 0/0 | 0/0 |
| Mr. A.K. Behera   | 0/0 | 0/0 | 0/0 | 0/2 | 0/0 |
| Mr. D. Kumar      | 0/1 | 0/0 | 0/0 | 0/0 | 0/0 |
| Mr. B.K.Sa        | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Ms. Sangita Sa    | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Mrs. S. Mahapatra | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |
| Mrs. M. Panda     | 1/0 | 2/0 | 0/0 | 0/0 | 0/0 |
| Mrs. L. Ghadei    | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 |

**Total No. of National/International Journals**

| <b>Name</b>       | <b>2010-11<br/>National/<br/>International</b> | <b>2011-12<br/>National/<br/>International</b> | <b>2012-13<br/>National/<br/>International</b> | <b>2013-14<br/>National/<br/>International</b> | <b>2014-15<br/>National/<br/>International</b> |
|-------------------|--|--|--|--|--|
| Dr. R Panda       | 1/2  | 1/7  | 0/4  | 0/6  | 0/2  |
| Dr. U.R. Jena     | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Dr. N.P. Rath     | 0/0  | 0/0  | 0/1  | 0/0  | 0/2  |
| Mr.S.Agrawal      | 0/0  | 0/0  | 0/1  | 0/0  | 0/2  |
| Dr. D. Mishra     | 0/1  | 0/1  | 0/1  | 0/1  | 0/1  |
| Dr.B.B.Mangaraj   | 0/0  | 0/1  | 0/0  | 1/1  | 0/2  |
| Dr. K. Sethi      | 0/0  | 0/0  | 0/3  | 0/1  | 0/0  |
| Dr. N. Bhoi       | 0/1  | 0/0  | 0/0  | 0/1  | 0/0  |
| Dr.M.R.Pradhan    | 0/2  | 0/2  | 1/3  | 0/2  | 0/1  |
| Mr. H. Pradhan    | 0/0  | 0/0  | 0/0  | 0/0  | 0/1  |
| Ms. D. Konhar     | 0/0  | 0/0  | 0/1  | 0/0  | 0/0  |
| Mr. B. Das        | 0/1  | 0/0  | 0/1  | 0/1  | 0/1  |
| Mr.S.N.Mishra     | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Mr. B.K. Bhoi     | 0/0  | 0/0  | 0/1  | 0/0  | 0/1  |
| Mr. A.K. Hota     | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Mr. M.R. Jena     | 0/0  | 0/0  | 0/1  | 0/0  | 0/0  |
| Mr.A.K.Sharma     | 0/0  | 0/1  | 0/2  | 0/2  | 0/1  |
| Mrs. R. Sahu      | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Dr. Sheeja K.L.   | 0/0  | 0/1  | 0/2  | 0/0  | 0/0  |
| Mr. A.K. Behera   | 0/0  | 0/0  | 0/0  | 0/2  | 0/0  |
| Mr. D. Kumar      | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Mr. B. K. Sa      | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Ms. Sangita Sa    | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Mrs. S. Mahapatra | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |
| Mrs. M. Panda     | 0/0  | 0/0  | 0/1  | 0/1  | 1/0  |
| Mrs. L. Gharei    | 0/0  | 0/0  | 0/0  | 0/0  | 0/0  |

- **Number of papers published in peer reviewed journals (national / international)**

: 95

- **Monographs:**  
NIL
- **Chapter in Books:** 05
- **Books Edited:** NIL
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Books with ISBN/ISSN numbers with details of publishers:** NIL
- **Citation Index – range / average :** 0-5/1.5
- **SNIP :** -
- **SJR :** -
- **Impact Factor – range / average:**  
-To be submitted at the time of peer team visit.
- **h-index :**

**23. Details of patents and income generated:** NIL

**24. Areas of consultancy and income generated:**

The faculty members are actively engaged in free consultancy without generating revenue which is mostly helpful to students improve their knowledge in the field of latest technology.

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:**

Department faculties are visiting both national / International laboratories / institutions like N.T.U. Singapore, IIT Roorkee, IIT Kharagpur, IIT Mumbai, Jadavpur University, Kolkata, NIT Rourkela etc.

**26. Faculty serving in:**

**a) National committees: Faculty members of the department are actively involved in the selection process of faculties of Biju Pattanaik University of Technology, Odisha as experts.**

**b) International committees :**

| Name                | Serving as | Committee   |
|---------------------|------------|---|
| Dr. R.P Panda       | Reviewer   | 1.Signal Processing Journal of Elsevier<br>2.IETE Journal of Research<br>3.IETE Technical Review    |
| Er. Sanjaya Agrawal | Reviewer   | 1.IET image processing journal<br>2.SEMCCO-2014 international conference<br>3.Applied computational |



|                    |  |   |
|--------------------|--|---|
|                    |  | intelligence and soft computing, Hindawi journal                          |
| Dr. B.B. Mangaraj  | Member of Chief Technical Advisory Board | 1.International Journal of Research in Advanced Technology in Engineering |
| Dr. Debasis Mishra | Reviewer                                 | ICTACT Journal of Communication Technology                                |

**c) Editorial Boards**

1. Prof. R. Panda- Editor in Inter Science Journal.

d) Any other (please specify) : NIL

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programmes and similar programmes).**

| SL. No | Faculty recharging strategies          | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|--------|--|---------|---------|---------|---------|---------|
| 1      | Refresher / orientation programmes/FDP | -       | -       | -       | -       | 1       |
| 2      | Workshops                              | 7       | 5       | 4       | 2       | 3       |
| 3      | Training programmes                    | 3       | 2       | 2       | 2       | 1       |
| 4      | Any other programmes                   | -       | -       | -       | -       | -       |

**28. Student projects**

a) Percentage of students who have done in-house projects including inter departmental/ programme: 95%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 5%

**29. Awards / recognitions received at the national and international level by**

- Faculty: 04 (Recognition)
- Doctoral / post-doctoral fellows: NIL
- Students: 06 (Awards)

**30 Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

| Sl. no | Name of the Seminars/ Conferences/Workshops            | Source of funding                     | Date of seminar | Coordinator      |
|--------|--|---------------------------------------|-----------------|------------------|
| 1.     | Awareness Programme on Technology Enhancement Planning | TEQIP-II                              | 27-09-2013      | Bikramaditya Das |
| 2.     | Creation and Management on Intellectual Property       | TIFAC,DIST                            | 01-02-2013      | Bikramaditya Das |
| 3      | Recent Advancement in Signal and Image Processing      | Electronics & Telecommunication Engg. | 24-29 June 2013 | Nilamani Bhoi    |

**31. Code of ethics for research followed by the departments**

All the registered Ph.D research works carried out under a supervisor has a Doctoral Scrutiny Committee (DSC) constituted by the university which regularly conducts meetings to check the ongoing research by reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinized by a plagiarism software for any malpractices. The M.Tech and B.Tech thesis are scrutinized by the concerned guide and reviewed by the Department Academic Committee (DAC). A national level student symposium (Techtronics) under the Electronics and Telecommunication Engineering Society is being organized every year where both the UG & PG students, in the national level, are encouraged towards research interest by presenting technical papers, poster presentation, modeling and simulation of systems.

**32. Student profile programme/course wise:**

The students who undertake the B. Tech programme in the department are being selected from JEE Main merit list from 2014 as per the decision of state government. The lateral entry students who undertake the B. Tech programme in the department are being selected from OJEE merit list. The students who undertake the M. Tech programme in the department are being selected on the basis of GATE score & rank. If any seat at PG level is found to be lying vacant, the seats are being offered to non-GATE students strictly on merit basis.

| Name of Programme | year | Application Received | Selected |        | Pass % |        |
|-------------------|------|----------------------|----------|--------|--------|--------|
|                   |      |                      | Male     | Female | Male   | Female |
| UG                | 2014 | JEE Main             | 50       | 21     | 98     | 100    |
|                   | 2013 | ODISHA JEE           | 29       | 12     | 100    | 100    |
|                   | 2012 | ODISHA JEE           | 27       | 12     | 99     | 100    |
|                   | 2011 | ODISHA JEE           | 2        | 11     | 98     | 99     |
|                   | 2010 | ODISHA JEE           | 28       | 10     | 100    | 99     |
| PG                | 2014 | 220                  | 19       | 11     | 100    | 100    |
|                   | 2013 | 189                  | 11       | 5      | 100    | 100    |
|                   | 2012 | 170                  | 9        | 3      | 100    | 100    |
|                   | 2011 | 128                  | 11       | 7      | 100    | 100    |
|                   | 2010 | 67                   | 13       | 5      | 100    | 100    |
| Ph.D.             | 2014 | 77                   | 6        | 3      | NA     | NA     |
|                   | 2013 | 68                   | 5        | 1      | NA     | NA     |
|                   | 2012 | 32                   | 6        | 1      | NA     | NA     |
|                   | 2011 | 12                   | 1        | 0      | NA     | NA     |
|                   | 2010 | 18                   | 2        | 0      | NA     | NA     |

### 33. Diversity of Students

Being a State Government funded University, the students from the state of Odisha are only eligible to undertake the B. Tech programme in the department. Only few students peruse their B.Tech programme in the department from North-East states of the country as Govt. of India Nominee. However, for M.Tech programmes students both from state and outside states are eligible. The Govt. of Odisha reservation rules are strictly followed.

| Name of Programme | Year | % of student from same university | % of student from other university (inside state) | % of student from other university (outside state) | % of student from other university (outside Country) |
|-------------------|------|-----------------------------------|---|--|--|
| UG                | 2014 | NIL                               |   |  |  |
|                   | 2013 | NIL                               |   |  |  |
|                   | 2012 | NIL                               |   |  |  |
|                   | 2011 | NIL                               |   |  |  |
|                   | 2010 | NIL                               |   |  |  |
| PG                | 2014 | 3                                 | 97  | 0  | 0  |
|                   | 2013 | 0                                 | 90  | 10   | 0  |
|                   | 2012 | 5                                 | 95  | 0  | 0  |
|                   | 2011 | 5                                 | 95  | 0  | 0  |
|                   | 2010 | 0                                 | 100   | 0  | 0  |
| Ph.D.             | 2014 | 6                                 | 90  | 10   | 0  |
|                   | 2013 | 6                                 | 100   | 0  | 0  |
|                   | 2012 | 2                                 | 100   | 0  | 0  |
|                   | 2011 | 0                                 | 100   | 0  | 0  |
|                   | 2010 | 0                                 | 100   | 0  | 0  |

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Apart from good percentage of placement of the students in the campus, the department also encourages the students for off-campus examinations like ICS, IES, and GATE etc.

| Category | Exam                   | 2014 | 2013 | 2012 | 2011 | 2010 |
|----------|------------------------|------|------|------|------|------|
| UG       | Civil service          | 00   | 00   | 00   | 01   | 00   |
|          | Defense                | 03   | 02   | 01   | 00   | 00   |
|          | GATE                   | 38   | 22   | 24   | 12   | 16   |
|          | Other competitive exam | 28   | 22   | 27   | 26   | 22   |
| PG       | Civil service          | 01   | 00   | 00   | 00   | 00   |
|          | NET                    | 01   | 01   | 01   | 00   | 01   |
|          | GATE                   | 22   | 16   | 07   | 11   | 00   |
|          | Other competitive exam | 00   | 01   | 00   | 01   | 00   |

**35. Student progression**

|                   | 2014 | 2013 | 2012 | 2011 | 2010 |
|-------------------|------|------|------|------|------|
| UG to PG          | 5%   | 7%   | 2%   | 3%   | 2%   |
| PG to Ph.D.       | 7%   | 55%  | 20%  | 12%  | 8%   |
| Employed Campus   | 57   | 30   | 31   | 32   | 30   |
| Other than campus | 4    | 1    | 2    | 0    | 1    |
| Entrepreneurs     | 1    | 0    | 0    | 0    | 0    |

**36. Diversity of staff**

| Percentage of Faculty who are graduates  |        |
|--|--------|
| Of the same university                   | 37.01% |
| From other universities within the state | 55.56% |
| From universities from other states      | 7.43%  |
| From universities outside the country    | Nil    |

**37. Number of faculty who were awarded Ph.D. during the assessment period : 05**

**38. Present details of departmental infrastructure facilities with regard to**

**(i) Library – 01 Room (234 books)**

**(ii) Internet facility - Wi-Fi and LAN connection in each LAB and Faculty room**

**(iii) Total No of class room – 03**

**(iv) Class room with ICT facility -01**

(v) Students LAB -06

(vi) Research lab -01

| Sl. No. | Name of Lab           | Major Equipment's  | Research Facilities   |
|---------|-----------------------|--|---|
| 1.      | Circuit Simulation    | (i) Desktops (HCL)-30 Nos.<br>[1 GB RAM, Pentium(R) D CPU]<br>(ii) UPS (Emerge)-30 Nos.<br>[500 VA]  | Computers are made available for PG and PhD scholars for doing their research work. |
| 2.      | Microwave Engg.       | (i) Reflex Klystron Test Bench-03 Nos.<br>(ii) Antenna Measurement Setup-1 No.<br>(iii) Microstrip Trainer Kit-01 No.  | HFSS Software   |
| 3.      | Basic Electronics     | (i) CRO 20/30 MHz-08 Nos.<br>(ii) Function Generator-05 Nos.<br>(iii) Transistor Power Supply-08 Nos.<br>(iv) Digital Multimeter-06 Nos.   | PSPICE Software (single user) available for research purpose.                       |
| 4.      | MPMC                  | (i) Microprocessor Trainer Kit 8085-20 Nos.<br>(ii) 8086 MP Trainer Kit(VMC 8603P)-06 Nos.<br>(iii) 8086 MP Trainer Kit with LCD display model-86LCD-04 Nos.<br>(iv) HP 9000 SERIES E 25 with Client/Server-01 No.<br>(v) PCAT 486-02 Nos.<br>(vi) 8051 Microcontroller Trainer Kit VMC 31/51 LCOP-06 Nos.         |   |
| 5.      | Instrumentation       | (i) LVDT Trainer-01 No.<br>(ii) Optical Transducer(LDR)-01 No.<br>(iii) Temperature Transducer-01 No.  |   |
| 6.      | Analog Communication  | (i) Pulse Code Modulation Transmitter And Receiver<br>(ii) Frequency Modulation Transmitter<br>(iii) Frequency Demodulation Receiver<br>(iv) Amplitude Modulation & Demodulation<br>(v) Balanced Modulator<br>(vi) FM Detection By PLL<br>(vii) Foster Seeley Discriminator<br>(vii) Voltage Controlled Oscillator |   |
| 7.      | Digital Communication | (i) Analog Signal Sampling And Reconstruction Kit<br>(ii) PAM,PWM,PPM Kit.<br>(iii) Data Reconditioning And Carrier Demodulation Kit<br>(iv) TDM-Pulse Amplitude Modulation Modulation & Demodulation Kit<br>(v) Delta Modulation, Adaptive Delta Modulation & Sigma Delta Modulation                              |   |

|    |      |   |  |
|----|------|---|--|
|    |      | & Demodulation Kit<br>(vi) Fibre Optic Analog And Digital Modulation And Demodulation Kit   |  |
| 8  | DSP  | i)15 numbers of PCs<br>ii)Matlab 7  |  |
| 9  | VLSI | i) 30 numbers of PCs.<br>ii)Xilinx 9.2 software.<br>iii)Orcad 9.1 Software<br>iv)Microwind Software<br>v)Spartan 2E VTU kit-3 numbers.<br>vi) Spartan 3E VTU kit-9 numbers. | It is the research laboratories for the UG students also.                |
| 10 | TSE  | i) 20 numbers of PCs<br>ii)Xilinx 9.2 software<br>iii)Cadence Software<br>iv)Orcad 9.1 software<br>v)Microwind Software   | It is the research laboratories for the M.Tech. and Ph.D. students also. |

### 39. List of doctoral, post-doctoral students and Research Associates

#### a) From host institutions/universities

| Name of the Doctoral student | Awarded | Year of Enrolment |
|------------------------------|---------|-------------------|
| Dr. Manoranjan Pradhan       | 2013    | 2008              |
| Dr. Kabiraj Sethi            | 2014    | 2008              |
| Mr. Sanjaya Agrawal          | -       | 2008              |
| Ms. Dipti Konhar             | -       | 2012              |
| Mr. Suwendu Narayan Mishra   | -       | 2012              |
| Mr. Alpesh Dauda             | -       | 2013              |
| Mr. Satyaranjan Sahu         | -       | 2013              |
| Mr. Ranjan Barik             | -       | 2014              |
| Mr. Ribhu Abhusan Panda      | -       | 2014              |
| Mr. Jajnyadutta Samantray    |         | 2014              |
| Mr. Aditya Kumar Hota        | -       | 2015              |
| Ms. Rasmita Sahu             | -       | 2015              |
| Ms. Sarmila Garnaik          | -       | 2015              |
| Mr. Shasanka Rout            | -       | 2015              |

**b) From other institutions/universities**

| Name of the Doctoral student | Awarded | Year of Enrolment |
|------------------------------|---------|-------------------|
| Mr. Anand Behera             |         | 2015              |
| Mr. Purnendu Mishra          | -       | 2014              |
| Ms. Jyotiprabha Dash         | -       | 2014              |
| Mr. Debakanta Behera         | -       | 2014              |
| Mr. Pradosh K. Hota          | -       | 2013              |
| Mr. K. Chiranjeevi           | -       | 2013              |
| Ms Sonali Dash               | -       | 2013              |
| Mr. Bandan Ku. Bhoi          |         | 2013              |
| Mr. Subhendu Ku. Sarangi     | -       | 2012              |
| Mr. Manoj Ku. Naik           | -       | 2011              |

**40. Number of post graduate students getting financial assistance from the university.**

| Session | Name of scholarship | Number of students |
|---------|---------------------|--------------------|
| 2014-15 | GATE / TEQIP        | 62/1               |
| 2013-14 | GATE / TEQIP        | 25/2               |
| 2012-13 | GATE                | 17                 |
| 2011-12 | GATE                | 5                  |
| 2010-11 | GATE                | 8                  |

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- The department assesses the needs of the development of new programme by presenting the same before the departmental faculty meeting. The views of the faculty members based on their previous academic and industrial experience are sought by conducting mind-boggling discussions.
- Then departmental committee is constituted to ascertain the need and scope of the programme considering the market demand, status of the programme in the institutions already offering (both reputed institutions & private institutions), opinion from stack holders(distinguished industry personalities, alumni, students, etc.).
- Based on the recommendation of the committee, detailed study on strength of the department to offer this programme is conducted.
- Then, a draft curriculum and syllabus is prepared by a committee comprising of faculty members with specialization in the subject programme.
- The draft curriculum is subjected to elaborate discussions in the faculty meeting for fine tuning and subsequent finalization.
- After approval from department, the draft is presented in the “Board of Studies”.
- After the approval from the Academic Council and the Board of Management the

programme is offered in the Department.

**42. Does the department obtain feedback from**

**a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- Faculties are directly involved in the preparation of syllabus, teaching learning process and evaluation.
- The departmental meetings are conducted regarding the teaching learning process where the experience of the senior faculties plays an important role.
- The course curriculum is also revised in a regular interval of time as per the need of the Industry and research at present through the departmental meeting.
- Any modifications suggested by the faculty are scrutinized and accordingly appraised in the board of studies for its approval.
- The evaluation process is very transparent. The answer scripts are shown to the students and is returned to the Examination cell after the students put their signature on the answer script.
- We are in a process for the online feedback not only from the students but also from all the stakeholders.

**b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The students are given opportunity to express their views on curriculum, syllabus and teaching-learning process.
- Teachers take the feed-back from the students in the classroom.
- The students give their feedback at regular intervals about the course content, teaching method and evaluation process.
- The student's feedback is analyzed and considered in the performance appraisal scoring system (PASS) of the individual faculty.
- The student feedback has an impact on the Faculty Performance and if the feedback of a faculty is not encouraging, he/she is counseled by the senior faculty, HOD and Dean.
- The students' feedback on Curriculum, Teaching learning and Evaluation are also discussed in the appropriate forums like Department faculty meeting, Board of Studies, and Academic council.



- Based on the students' feedback, the curriculum and learning process is revised and revamped.
- Also the teachers change their teaching methods as per the valid suggestion of the students to make the teaching-learning process more interactive.

**c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

- The Department conducts regular meeting of the stakeholders like staff, students, alumni, parents, employers and look into these matters, separately. Yearly two alumni meetings, one parents meeting, one student meeting are conducted to get their inputs. The suggestions are incorporated as improvement / modification in the curriculum.
- Informal discussions are also made with alumni who completed their higher studies to get the input for the improvement of curriculum.

**43. List the distinguished alumni of the department (maximum 10)**

The department has produced many distinguished alumni since its inception. The list of few is presented here.

| <b>Name</b>                | <b>Designation</b>    | <b>Organization</b>         |
|----------------------------|-----------------------|-----------------------------|
| Dr. Sanjay Burman          | Director              | CAIR, Bangalore             |
| Dr. Rabi Narayan Mahapatra | Professor             | Texas A&M University        |
| Er. R.N.Pallai             | Special Secretary     | Dept. of IT Govt. of Odisha |
| Er. P.K Pati               | Dy. Director General  | Prasar Bharati, Bhubaneswar |
| Dr. Ganapati Panda         | Ex. Deputy Director   | IIT, Bhubaneswar            |
| Dr. P.K Hota               | Chief General Manager | BSNL                        |
| Er. Binaya Kumar Dash      | Sr. Scientist         | DRDO                        |
| Er. Prem Kumar Sahani      | Scientist             | DRDO                        |
| Mr. B.K Naik               | General Manager       | BSNL, Bhubaneswar           |
| Mr. C.K. Mohanty           | General Manager       | NALCO, Angul                |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

There are many student enrichment programmes has been held in the departments time to time, by inviting the eminent personalities all over the country. Some of them are listed below-

| <b>Sl no</b> | <b>Name of the Programmes</b>  |
|--------------|--|
| 1            | Special Lecture on "VLSI and PCI data bus function" by Mr. Animesh Mohanty, Production Manager, Perfect VIPs in Techtronics 2K15 |
| 2            | Workshop on NPTEL in March 2013  |
| 3            | Guest Lecture by Adani Power in Techtronics 2K13   |
| 4            | Special Lecture on "BSNL 4G in ODISHA" by Mr. S.N. Mishra, General Manager   |

|   |   |
|---|---|
|   | Trainee, BNSL Odisha, Techtronics 2K12  |
| 5 | Special Lecture on “Recent Trends in Communication ” by Dr. Saswat Chakrabarti , Professor, G.S Sanyal School of Communication, IIT, Kharagpur in 2011. |

**45. List the teaching methods adopted by the faculty for different programmes.**

- Based on the previous experience and available expert guidance, various teaching methods such as, Black board, LCD presentation, Smart board presentation, Software demos, illustration with physical models, Quiz, e-learning, industrial visit, students seminars presentation and distribution of soft/hard copy of handouts/PPT are used for various programmes offered by the department.
- Digitized lecture notes are also provided to the students.
- Apart from that the following methods are also included.
  - Brain storming
  - Quiz
  - Seminars
  - NPTEL Video Lectures

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The examination system including, Class Tests, assignments, Mid-Semester Examination, End Semester Examination ensure that the programme objectives and outcomes are met through periodical reviews.
- Departmental meetings are conducted at regular intervals to monitor the teaching learning process and ensure that the programme objectives and outcomes are constantly met.
- The departmental technology club conducts various technical competition like technical quiz, circuit simulation, paper presentation where the learning outcome of the students are evaluated.
- The students also participate in different national and international technical competition where they explore their knowledge. From their performance the learning outcomes are monitored.

**47. Highlight the participation of students and faculty in extension activities.**

The department has got a Technical society where all the students and faculties are the active members. Again the students are participating in the Blood donation camp, NCC, YOGA Club, NSS etc. The students are also a part of SANSKAR KENDRA where they help and aware the

poor and innocent villagers.

| Year | Activity                          | Place          |
|------|-----------------------------------|----------------|
| 2015 | ABU ROBOCON                       | MIT, Pune      |
| 2015 | MOMENTOTUM                        | IIT, BHU       |
| 2015 | ROBOTRYST-2015                    | IIT, DELHI     |
| 2014 | TECHNO-MANAGEMENT FEST<br>KSHITIJ | IIT,KHARAGPURE |

48. **Give details of “beyond syllabus scholarly activities” of the department. :**

- Professional societies such as “Electronics and Telecommunication Engineering Society” is functioning effectively and organizes National level technical symposium, guest lectures, technical events such as circuito, poster presentation, design contest etc.
- The students are encouraged to participate in various regional level and national level technical events organized by other Institutions/universities.
- Students also organize cultural fest and literary fest every year.
- In order to apply the concepts learned, activities like model making contest, paper/poster /design contests are conducted regularly in the intra department level.
- Students also encouraged to participate in sports activities within the University and conducted by other Institutions/universities.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities like Promotion of computer literacy among rural people etc.
- Students are encouraged to participate in Value added programmes.
- Industrial visits are arranged regularly and in-plant training is also encouraged.
- There is a ISTE Chapter through which different workshops and seminars are organized.

49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Before it turned into a University, the U.G. Programme (B. Tech in ETC Engg.) and P.G. Programme in Communication System Engineering were approved by AICTE and the U.G. programme was accredited by NBA.

- B.Tech. program was accredited for Three years w.e.f. 27.07.2006.

50. **Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Electronics and Telecommunication Engineering department is being serving to the nation and the people of the Electronics & Telecommunication Engineering community since it is established way back in the year 1972. It is the OLDEST DEPARTMENT IN THE STATE having its 10 number of laboratories, 1400 numbers of alumni. The alumni of the department have been chairing and discharging their duties in various prestigious organizations and institutions in this country and abroad as well. Continuous thinking process with updating knowledge raises the department not only in the areas of research activities and competition with globalization but also shows the path for serving the social communities.

- Dr. R. Panda has utilized B-spline concept in the field of signal processing and also contributed a lot to bio-medical image processing, using soft computing tools.
- Dr. U.R. Jena has developed new methods in the area of Segmentation in Image processing.
- Dr. N.P. Rath has developed some new insights into Face Recognition techniques.
- Dr. D. Mishra has modified some concepts in meta-materials to be used in Resonator and Antenna Design.
- Dr. B.B Mangaraj has given some different aspects of Wired Antenna utilizing different optimization techniques.
- Dr. M. Pradhan has proposed different Vedic multiplication and division methods for fast computations in a RISC Processor.
- Dr. N. Bhoi has contributed many things in the field of Image Processing.
- Dr. K Sethi has proposed different squaring and cubic methods in a Digital Signal Processor that helps in efficient computation in digital signal processing applications.

51. **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- The first Electronics and Telecommunication Engg. Department of the State (1972).
- This is the feeder department to that of NIT, Rourkela, CET Bhubaneswar, etc.

- 33 years old department with highly placed alumni in various organizations and institutions across globe.
- Highly qualified, experienced and dedicated faculty is the pillar of support of the department.
- A significant number of faculty with Ph.D. qualification.
- Most of the other faculties are pursuing Ph.D.
- High faculty retention rate.
- Well equipped laboratories with latest software.
- Well-experienced non-teaching staff.
- Active students' participation in curricular and extracurricular activities.
- High placement rate of the students.
- Global up to date Industry oriented curriculum.
- Eco-friendly working environment.

**Weakness:**

- Additional space for expansion of classrooms and laboratories.
- Poor connectivity to airports of the State.

**Opportunities:**

- More collaborative research work with premier research institutions / foreign universities.
- To start an interdisciplinary and industry based specialized PG. programme and research.
- Industry supported Laboratories.

**Challenges:**

- Incorporate ethical values in the mind of students.
- To increase the number of external funded projects and consultancy works by competing with premier institutions.
- Changing the attitude of students towards focused learning and research.
- Patent of developed products / concepts / technologies.

- More Projects from Industry.
- To upgrade the laboratories of the department.

**52. Future plans of the department.**

- To enhance the Transformative research work and producing more Ph.D students.
- To publish more reputed journal papers and make patents.
- Department is ready to open dual degree programmes by 2015-16.
- It has also applied to DST, UGC, DRDO, etc. for financial assistant for research projects.
- This will widen the scope for getting research scholars whom may later be posted as faculty in the dept. The project can also provide publicity to department in areas of design consultancy works.
- Big firms are expected to provide assignment on various consultancy works.
- Revenue generated in this process would help to convert the B.Tech & M.Tech programme into earn and learn scheme with zero admission charges.
- To start certificate courses for the students so as to enhance their employability.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Dept. of Mechanical Engg.

2. **Year of establishment :** 1956

3. **Is the Department part of a School/Faculty of the university?**

The Department is the part of the University.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): UG, PG, Ph.D:**

The department has been offering B. Tech in Mechanical Engineering since its inception. Considering the need and demand, the department has subsequently offered M. Tech in Mechanical Engineering in different specializations one after the other. The details of student strengths and year of establishment are as follows:

| Sl. No | Names of Programmes  | Year of Estt. | Student Strength |         |         |         |         |
|--------|--|---------------|------------------|---------|---------|---------|---------|
|        |  |               | 2014-15          | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| 1      | UG (B. Tech) -<br><b>Mechanical Engineering</b>  | 1956          | 120              | 120     | 60      | 60      | 60      |
| 2      | PG (M. Tech) -<br><b>Mechanical Engineering</b><br>Machine Design &<br>Analysis; Heat Power<br>Engg.; Production Engg. | 1972          | 18               | 18      | 18      | 18      | 18      |
| 3      | Ph. D ( <b>Mechanical Engg</b> )   | 1956          | -                | -       | -       | -       | -       |

5. **Interdisciplinary programmes and departments involved**

The department offers the following courses in first, second, third & fifth semesters for the students of other departments of the University.

| Sl No | Courses                    | Semester        | Name of the Department |
|-------|----------------------------|-----------------|------------------------|
| 1     | Engineering Mechanics      | 1 <sup>st</sup> | CV                     |
| 2     | Engineering Mechanics      | 1 <sup>st</sup> | EE                     |
| 3     | Engineering Mechanics      | 1 <sup>st</sup> | ETC                    |
| 4     | Engineering Mechanics      | 1 <sup>st</sup> | EEE                    |
| 5     | Engineering Mechanics      | 1 <sup>st</sup> | PE                     |
| 6     | Engineering Mechanics      | 2 <sup>nd</sup> | CSC & E                |
| 7     | Env. Science & Engineering | 2 <sup>nd</sup> | IT                     |
| 8     | Env. Science & Engineering | 2 <sup>nd</sup> | MMT                    |
| 9     | Env. Science & Engineering | 2 <sup>nd</sup> | Ch. Engg.              |
| 10    | Engineering Thermodynamics | 3 <sup>rd</sup> | EE                     |

|    |                                   |                 |         |
|----|-----------------------------------|-----------------|---------|
| 11 | Engineering Thermodynamics        | 3 <sup>rd</sup> | ETC     |
| 12 | Engineering Thermodynamics        | 3 <sup>rd</sup> | EEE     |
| 13 | Engineering Thermodynamics        | 3 <sup>rd</sup> | PE      |
| 14 | Workshop Practice-I               | 1 <sup>st</sup> | PE      |
| 15 | Workshop Practice-I               | 1 <sup>st</sup> | CV      |
| 16 | Workshop Practice-I               | 1 <sup>st</sup> | EE      |
| 17 | Workshop Practice-I               | 1 <sup>st</sup> | ETC     |
| 18 | Workshop Practice-I               | 1 <sup>st</sup> | EEE     |
| 19 | Workshop Practice-I               | 1 <sup>st</sup> | PE      |
| 20 | Workshop Practice-I               | 2 <sup>nd</sup> | CSC & E |
| 21 | Workshop Practice-I               | 2 <sup>nd</sup> | IT      |
| 22 | Workshop Practice-I               | 2 <sup>nd</sup> | MMT     |
| 23 | Fluid Power Engg.                 | 5 <sup>th</sup> | PE      |
| 24 | Mechanics & Materials Testing Lab | 3 <sup>rd</sup> | EE; EEE |
| 25 | Materials Testing Lab             | 3 <sup>rd</sup> | CV      |
| 26 | Thermal & Materials Testing Lab   | 4 <sup>th</sup> | PE      |

#### 6. Courses in collaboration with other universities, industries, foreign institutions, etc.:

The department conducts various courses for faculties to enrich their teaching and learning capabilities under faculty development programme. Further, the department also regularly carries out various courses for the students to enhance their learning potential under different programmes like students training, internship, workshops, conferences, industrial visit etc. The MoUs to undertake specialized courses and research in collaboration with other Universities, Industries are in progress and collaboration with foreign universities to be finalized in future.

#### 7. Details of programmes discontinued, if any, with reasons:

No programme has been discontinued by the department so far.

#### 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

The department has implemented Semester based CGPA credit system for UG and PG programme. The details of credit in each semester for both the programme are furnished bellows:

| UG (B. Tech)    |        |                 |        | PG (M. Tech)    |        |
|-----------------|--------|-----------------|--------|-----------------|--------|
| Semester        | Credit | Semester        | Credit | Semester        | Credit |
| 1 <sup>st</sup> | 28     | 5 <sup>th</sup> | 28     | 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     | 6 <sup>th</sup> | 28     | 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 28     | 7 <sup>th</sup> | 28     | 3 <sup>rd</sup> | 15     |
| 4 <sup>th</sup> | 28     | 8 <sup>th</sup> | 24     | 4 <sup>th</sup> | 25     |

However, the department is going to implement choice based credit system from the academic session 2015-16.



**9. Participation of the department in the courses offered by other departments:**

The students of the Mechanical Engineering Department undertake the following courses offered by other departments of the University in first, second, third and fourth semesters.

| SI No | Course                              | Semester        | Name of the Department  |
|-------|-------------------------------------|-----------------|-------------------------|
| 1     | Mathematics-1                       | 1st             | Mathematics             |
| 2     | Physics                             | 1st             | Physics                 |
| 3     | Environmental Science & engineering | 1st             | CV                      |
| 4     | Basic Electrical Engineering        | 1st             | EE                      |
| 5     | English for communication           | 1st             | Humanities              |
| 6     | Mathematics-II                      | 2nd             | Mathematics             |
| 7     | Chemistry                           | 2nd             | Chemistry               |
| 8     | Programming & Data Structure        | 2nd             | Computer Science & Engg |
| 9     | Basic electronics                   | 2nd             | ETC                     |
| 10    | Mathematics III                     | 3rd             | Mathematics             |
| 11    | OB                                  | 3rd             | Humanities              |
| 12    | Object Oriented Programming         | 3rd             | Computer Science & Engg |
| 13    | Mathematics IV                      | 4 <sup>th</sup> | Mathematics             |

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

The sanctioned faculty strength of the department is 41(forty one). At present the department has 21 faculties. The University has recently made an advertisement to fill up the remaining vacant posts for smooth running of the department.

| Posts               | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 06         | 01     | 02                           |
| Associate Professor | 14         | 02     | 02                           |
| Assistant Professor | 21         | 17     | 17                           |

**11. Faculty profile with name, qualification, designation, area of specialization:**

The department has at present 21 faculties; out of which 11 faculties are having PhD and rest are having M. Tech qualification. Rests are perusing Ph. D in the department and at other Universities like IITs, NITs.

| Name            | Qualification | Designation  | Specialization                              | No. of Years of Experience | No. of Ph.D. Students Guided/ Guiding for the last 5 years |
|-----------------|---------------|--------------|---|----------------------------|--|
| Prof. P.R. Dash | Ph.D.         | Prof. & Head | Mechanical Vibration & condition monitoring | 24 Years                   | 03   |
| Prof. Jaydev    | Ph.D.         | Professor    | Production Engg.                            | 17 Years                   | 04   |

|                       |                |                 |                           |                   |     |
|-----------------------|----------------|-----------------|---------------------------|-------------------|-----|
| Rana                  |                |                 |                           |                   |     |
| Prof. S. B. Mohapatra | Ph.D.          | Asst. Professor | Thermal Engg.             | 28 Years          | Nil |
| Dr. B. B. Pani        | Ph.D.          | Assoc. Prof.    | Production Engg.          | 21 Years          | 04  |
| Dr. S. K. Sarangi     | Ph.D.          | Assoc. Prof.    | Production Engg.          | 09 Years          | 04  |
| Mr. A. Mohanty        | Ph.D. (contd.) | Asst. Prof      | Thermal Engg.             | 06 Years          | Nil |
| Dr. J. R. Mohanty     | Ph.D.          | Asst. Prof      | Machine Design            | 19 Years          | 05  |
| Dr. P. Dash           | Ph.D.          | Asst. Prof      | Machine Design            | 08 Years          | 04  |
| Dr. P. K. Pradhan     | Ph.D.          | Asst. Prof      | Machine Design            | 04 Years          | 02  |
| Dr. P. Mishra         | Ph.D.          | Asst. Prof      | Production Engg.          | 04 Years          | 03  |
| Mrs. S. S. Naik       | Ph.D. (contd.) | Asst. Prof      | Production Engg.          | 03 Years          | Nil |
| Mr. D. Tripathy       | Ph.D. (contd.) | Asst. Prof      | Machine Design            | 02 Years          | Nil |
| Mr. P. K. Jena        | Ph.D. (contd.) | Asst. Prof      | Thermal Engg.             | 10 Years          | Nil |
| Dr. S. Mishra         | Ph.D.          | Asst. Prof      | Production Engg.          | 03 Years          | 01  |
| Miss J. Dehury        | Ph.D. (contd.) | Asst. Prof      | Production Engg.          | 08 Months         | Nil |
| Dr. D. Mishra         | Ph.D.          | Asst. Prof      | Thermal Engg.             | 01 Year           | 01  |
| Mrs. P. P. Mohanty    | Ph.D. (contd.) | Asst. Prof      | Production Engg.          | 01 Year           | Nil |
| Dr. S.R. Pattnaik     | Ph.D.          | Asst. Prof      | Production Engg.          | 05 Yrs. 03 Months | Nil |
| Mrs. D. Hansdah       | Ph.D. (contd.) | Asst. Prof      | Thermal Engg.             | 08 Months         | Nil |
| Mr. J. B. Lakra       | M.Tech.        | Asst. Prof      | Machine Design            | 08 Months         | Nil |
| Mr. M. K. Sutar       | Ph.D. (contd.) | Asst. Prof      | Robotics & Machine Design | 08 Years          | Nil |

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

The department arranges the meeting regularly by calling senior Visiting Fellows, adjunct faculty, and emeritus professors to have an interaction with faculties and students. The list of professors along with their organization who visited the department is furnished below:

| Sl No | Name                                | Organization   |
|-------|-------------------------------------|--|
| 1     | Prof. Debendra Kumar Das            | University of Alaska Fairbanks, Department of Mechanical Engineering, USA. |
| 2     | Prof. A. K. Chattopadhaya           | IIT, Kharagpur.  |
| 3     | Prof. G. L. Dutta                   | IIT, Kharagpur.  |
| 4     | Prof. D. K. Tripathy                | IIT, Kharagpur.  |
| 5     | Prof. S. Nayak                      | IIT, Bhubaneswar   |
| 6     | Prof. N. S. Dash (Professor Rtd.)   | NIT, Rourkela.   |
| 7     | Prof. A. K. Behera (Professor Rtd.) | NIT, Rourkela.   |
| 8     | Prof. B. B. Biswal                  | NIT, Rourkela.   |
| 9     | Prof. R. K. Mishra (Professor Rtd.) | UCE Burla  |
| 10    | Prof. D. K. Ray (Professor Rtd.)    | UCE Burla  |
| 11    | Prof. A Mishra                      | IGIT, Sarang   |
| 12    | Prof. S. Senapati                   | IGIT, Sarang   |

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

UG: - 20%; PG: - 10%

**14. Programme-wise Student Teacher Ratio:**

UG – 13:1; PG – 11:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

|                      | 2010-11 |    |    | 2011-12 |    |    | 2012-13 |    |    | 2013-14 |    |    | 2014-15 |    |    |
|----------------------|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|
|                      | S       | F  | A  | S       | F  | A  | S       | F  | A  | S       | F  | A  | S       | F  | A  |
| Administrative Staff | 00      | 00 | 01 | 00      | 00 | 01 | 00      | 00 | 01 | 00      | 00 | 01 | 00      | 00 | 01 |
| Technical/Academics  | 06      | 00 | 13 | 06      | 00 | 13 | 06      | 00 | 13 | 06      | 00 | 13 | 06      | 00 | 13 |

**Note: S- Sanctioned**

**F- Filled**

**A - Actual**

**16. Research thrust areas as recognized by major funding agencies:**

The following broad research thrust areas are being recognized by major funding agencies:

- Design and Analysis
- Material Design
- Mechatronics
- Composite materials

- Nano-technology
- Production Engineering
- Thermal Engineering

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received.**

The department has received number of projects amounting 70 lakhs. Some of them have been completed and others are continuing which are as follows:

| SL.No | Year | Project Details  | Department and Principal Investigator | Name of Project  | Name of funding agency / industry | Total grant received (lakhs) |
|-------|------|--|---------------------------------------|------------------|-----------------------------------|------------------------------|
| 1     | 2009 | 8023/BOR/RID/RPS-142/2008-09, dated 12 <sup>th</sup> March 2009              | Mechanical/<br>Dr. S.K. Sarangi       | AICTE (RPS)-2009 | AICTE                             | 6.49                         |
| 2     | 2012 | 8023/RID/RPS-18(POLICY-IV) (GOVT)/2011-12, dated 20 <sup>th</sup> April 2012 | Mechanical/<br>Dr. S.K. Sarangi       | AICTE (RPS)-2012 | AICTE                             | 14.10                        |
| 3     | 2013 | 22(0628)/13/EMR-II, dated 26 <sup>th</sup> February 2013                     | Mechanical/<br>Dr. S.K. Sarangi       | CSIR-2013        | CSIR                              | 21.92                        |
| 4     | 2013 | MRP-MAJOR-MECH-2013-7846   | Mechanical/<br>Dr. S.K. Sarangi       | UGC-MRP-2013     | UGC                               | 14.97                        |
| 5     | 2014 | ERIP/ER/1203119/M/01/1529  | Mechanical/<br>Dr. J. R. Mohanty      | DRDO-2014        | DRDO                              | 7.385                        |

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration:**

Department is involved in doing collaborative projects with different national organisations such as CIPET, IMT, NIT, IIT etc. Some of the student projects with national collaborations are given below:

|                               | Year    | Name of the Student | Collaborating Institute                            | Grant Received |
|-------------------------------|---------|---------------------|--|----------------|
| <b>National Collaboration</b> | 2014-15 | Suryakanta Sahu     | Rajaramanna Centre for Advanced Technology, Indore | Nil            |
|                               | 2014-15 | Koomar Sudarsan     | Rajaramanna Centre for Advanced Technology, Indore | Nil            |
|                               | 2014-15 | Anshuman            | Central Tool Room & Training Centre, BBSR          | Nil            |

**b) International collaboration:**

The Department is already in process to initiate collaborative projects with global organization.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

| SL. No | Year | Project Details   | Department and Principal Investigator | Name of Project      | Name of funding agency / industry | Total grant received (lakhs) |
|--------|------|---|---------------------------------------|----------------------|-----------------------------------|------------------------------|
| 1      | 2008 | SR/FST/ETI-208/2007, dated 31 <sup>st</sup> December 2008 | Mechanical/HOD                        | DST (FIST)-2008      | DST                               | 67.57                        |
| 2      | 2010 | AICTE (MODROBS)   | Mechanical/HOD                        | AICTE (MODROBS)-2010 | AICTE                             | 5.76                         |

**20. Research facility / centre with**

- **State recognition:** The department is already recognised by Govt. of Odisha. Research facilities are available in the department in the areas of Material testing, Dynamics and vibration, Thermal and fluid power for pursuing Ph. D. and also providing free consultancies to various State Govt. bodies and nearby industries.
- **National recognition:** The department is recognised nationally by **SKF India Ltd. Pune and Tech Mahindra, Pune** for doing research work in different fields such as Material Design, Composites, Production Engg., Thermal and fluid power Engg. due to availability of experts.
- **International recognition:** The department is in process to receive internal reorganisation with regard to research facilities.

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**

The department is already in touch with nearby industries like HINDALCO, MCL, L&T and NALCO to upgrade the existing laboratories and set-up new laboratories. Shortly, the MoU's are going to be signed.

**22. Publications:**

- **Number of papers published in peer reviewed journals (national / international):**

The faculties have published 54 numbers of journals and 61 numbers of conference proceedings during last five years.

| SI No. | Name of faculty       | Publications |               |                        |               |
|--------|-----------------------|--------------|---------------|------------------------|---------------|
|        |                       | Journals     |               | Conference Proceedings |               |
|        |                       | National     | International | National               | International |
| 1      | Prof. P.R. Dash       | 00           | 01            | 00                     | 00            |
| 2      | Prof. Jaydev Rana     | 00           | 02            | 05                     | 00            |
| 3      | Prof. S. B. Mohapatra | 00           | 00            | 00                     | 00            |
| 4      | Dr. B. B. Pani        | 00           | 00            | 00                     | 07            |
| 5      | Dr. S. K. Sarangi     | 00           | 01            | 02                     | 03            |
| 6      | Dr. J. R. Mohanty     | 01           | 13            | 05                     | 01            |
| 7      | Mr. A. Mohanty        | 00           | 00            | 00                     | 02            |
| 8      | Mr. P Dash            | 00           | 05            | 00                     | 01            |
| 9      | Dr. P.K. Pradhan      | 00           | 01            | 02                     | 01            |
| 10     | Dr. P. P. Mishra      | 00           | 09            | 07                     | 05            |
| 11     | Mrs. S. S. Naik       | 00           | 00            | 01                     | 01            |
| 12     | Mr. D. Tripathy       | 00           | 00            | 00                     | 00            |
| 13     | Mr. P. K. Jena        | 00           | 03            | 01                     | 02            |
| 14     | Dr. S. Mishra         | 00           | 13            | 02                     | 07            |
| 15     | Ms. J. Dehury         | 00           | 01            | 00                     | 00            |
| 16     | Mrs. P. P. Mohanty    | 00           | 04            | 00                     | 06            |
| 17     | Dr. D. Mishra         | NIL          | NIL           | 02                     | 10            |
| 18     | Mrs S. Pattanaik      | NIL          | 03            | NIL                    | 05            |
| 19     | Mrs. D.Hansda         | NIL          | 02            | 02                     | 09            |
| 20     | Mr. J. B. Lakra       | NIL          | NIL           | NIL                    | NIL           |
| 21     | Mr. M.K.Sutar         | NIL          | 01            | NIL                    | 05            |

- **Monographs:** NIL
- **Chapter in Books:** NIL
- **Books Edited:** NIL
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Books with ISBN/ISSN numbers with details of publishers:** NIL
- **Citation Index – range / average :** 5 - 116
- **SNIP:** NIL
- **SJR:** NIL
- **Impact Factor – range / average:** 0.2 – 3.0
- **h-index :** Max: 07

### 23. Details of patents and income generated:

Faculties and students of the department are in process of filing patents in thrust areas like advanced composite material; nano-technology; Nano-carbon coating etc. One of the student, Mr. Rajendra Kumar Sinku has applied patent on “Clutch Slip Locking Device” with Application No.- 724/kol/2012 in 2012.

**24. Areas of consultancy and income generated:**

Department provides free consultancy service in the area of 'Material Testing' to state government and nearby industries.

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:**

The following faculty members have visited and worked in different laboratories in India and abroad:

| Name              | Laboratory   |
|-------------------|--|
| Dr. S. K. Sarangi | Heat Transfer Measurement Lab.; Department of Microelectronics, National Cheng Kung University, Taiwan |
| Dr. P. K. Pradhan | Condition Monitoring Lab.; IIT, Kharagpur.   |
| Mr. A. Moahnty    | Laser Technology EBM Lab.; IIT, Kharagpur.   |
| Ms. D. Hansda     | I. C. Lab.; NIT, Rourkela.   |
| Ms. P. P. Mohanty | CAD CAM Lab.; NIT, Rourkela.   |

**26. Faculty serving in****a) National committees: 03**

|                                |  |
|--------------------------------|--|
| Dr. J. Rana                    | Member in BPUT, Govt of Odisha, Curriculum development.; Institute of Engineers, India |
| Dr. J. Rana; Dr. J. R. Mohanty | ISTE member  |
| A. Mohanty                     | ISHMT member   |

**b) International committees: 02**

|                           |   |
|---------------------------|---|
| Dr. Saroj Kumar Sarangi   | Reviewer for 4 papers in Applied surface science of Elsevier Science  |
| Dr. Prasant Kumar Pradhan | Reviewer for 1 paper in Journal on Vibration Control – Sage Publication and Computer aided Industrial engineering – Elsevier publication. |

**c) Editorial Boards: Nil****d) any other (please specify): Nil****27. Faculty recharging strategies: Seminar, Conferences, workshop and short-term courses; Strategies attended for year 2010 to 2015;**

| Sl. No. | Faculty Recharging Strategies                        | 2014 -15 | 2013 -14 | 2013 -12 | 2012 -11 | 2011 -10 |
|---------|--|----------|----------|----------|----------|----------|
| 1       | Refresher/orientation Programs /conference & seminar | 5        | 4        | 5        | 2        | 4        |
| 2       | Workshops  | 5        | 1        | -        | -        | -        |
| 3       | Tanning Programs / Short Term course                 | 2        | 2        | 2        | 2        | -        |
| 4       | Any others   | -        | -        | -        | -        | -        |

## 28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects: UG – 98%; PG – 95%
- Percentage of students doing projects in collaboration with other universities / industry / institute: UG – 2%; PG – 5%

## 29. Awards / recognitions received at the national and international level by

- Faculty for year 2010 – 2015: 02

| Name of faculty  | Award  | Year |
|------------------|--|------|
| Dr. B. B. Pani   | Rajiv Gandhi Sadbhavna award for excellence in teaching and research by Rajiv Gandhi foundation.   | 2010 |
| Dr. P. P. Mishra | Young Investigator Award for the paper entitled "statistical analysis for the abrasive wear behaviour of bagasse fiber reinforced polymer composite" at the International conference on Mechanical and Industrial Engineering (ICMIE) held at Singapore. | 2012 |

- Doctoral / post doctoral fellows: 02
- Students for year 2010-2015:

|  | Award   | Year |
|--|---|------|
| • Mechanical students in Beclits group.  | bagged 3 <sup>rd</sup> position at IIT, Kharagpur in quiz event.  | 2011 |
| • Mechanical students in Beclits group   | bagged 3 <sup>rd</sup> position at chancellor cup (BBSR)  | 2011 |
| • Mechanical students in Robotic society | Bagged 4 <sup>th</sup> rank in robocon 2K11   | 2011 |
| • Mechanical students in Beclits group   | bagged 1 <sup>st</sup> position at Vigilance Debate.  | 2012 |
| • Mechanical students in Souls group     | bagged 2 <sup>nd</sup> rank at NITRUTSAV (NIT-R) by Dhvani band and 2 <sup>nd</sup> rank at NITRUTSAV (NIT-R) by Shruti Dash. | 2012 |
| • Mechanical students in Vibranz group   | bagged 3 <sup>rd</sup> rank in ISKA at NIT-R.   | 2012 |
| • Mechanical student in SAE group        | bagged rank 51 <sup>st</sup> in baja SAE India and featured in overdrive magazine   | 2012 |
| • Mechanical students in robotic society |   |      |
| • Mechanical students in Souls group     | bagged 3 <sup>rd</sup> rank at ITER by forbidden band and 4 <sup>th</sup> rank at KIIT by Kronox band.                        | 2013 |
| • Mechanical student in SAE group        | bagged rank 51 <sup>st</sup> in baja SAE  | 2013 |
| • Mechanical students in robotic society | bagged 3 <sup>rd</sup> rank in Innovision2K13   | 2013 |
| • Mechanical students in                 | bagged 9 <sup>th</sup> rank at IIT, Kharagpur (Spring Fest).  | 2014 |



|                                   |  |      |
|-----------------------------------|--|------|
| Vibranz group                     |  |      |
| • Mechanical student in SAE group | Secured 19 <sup>th</sup> rank in acceleration event, Baja SAE India. | 2014 |
| • Mechanical student in SAE group | Bagged rank 11 in SUPRA SAE India                                    | 2014 |

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) for year 2010 to 2015: 02**

| Sl. No. | Name of the Seminars/ Conferences/Workshops                              | Source of funding   | Date of seminar                                 | Coordinators                     |
|---------|--|---|---|----------------------------------|
| 1.      | National Conference “Emerging New Materials in Engineering Applications” | TEQIP, VSSUT, Burla and MCL, Burla and ISTE chapter, Burla. | 19 <sup>th</sup> -20 <sup>th</sup> January 2013 | Dr. P. P. Mishra<br>Dr. P. Nanda |
| 2.      | Workshop on Professional and Research skill                              | Alumina association, VSSUT, Burla                           | 14 <sup>th</sup> September 2014                 | Dr. P. K. Pradhan                |

**31. Code of ethics for research followed by the departments:**

The department believes on continues collaboration between the participants of research and their mentors, in order to have consent methods and processes. The results, analysis and interpretation obtained are reviewed by the concerned mentors and latter pier reviewed by all the faculties of the department to ensure novelty of the research. The authenticity and anti-plagiarism are given importance and the department tries to inculcate the spirit of working in groups among the researchers.

**32. Student profile programme-wise:**

| Name of the Course/programme: UG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| B.Tech (2014-15)                 | IIT-JEE(Main)         | 79       | 58       | 21 | Yet to publish  |
| B.Tech (2013-14)                 | IIT-JEE(Main)         | 80       | 57       | 23 | 98.47%          |
| B.Tech (2012-13)                 | OJEE                  | 73       | 59       | 14 | 91.78%          |
| B.Tech (2011-12)                 | OJEE                  | 78       | 61       | 17 | 100%            |
| B.Tech (2010-11)                 | OJEE                  | 63       | 45       | 18 | 100%            |

\*M = Male \*F = Female

| Name of the Course/programme: PG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| M.Tech (2014-15)                 | 159                   | 50       | 45       | 05 | Yet to publish  |
| M.Tech (2013-14)                 | 22                    | 14       | 06       | 08 | 100%            |
| M.Tech (2012-13)                 | 23                    | 14       | 05       | 09 | 100%            |
| M.Tech (2011-12)                 | 28                    | 17       | 08       | 09 | 100%            |
| M.Tech (2010-11)                 | 16                    | 12       | 07       | 05 | 100%            |

\*M = Male \*F = Female

| Name of the Course/programme: PG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| PhD (2014-15)                    | 15                    | 09       | 03       | 06 | ---             |
| PhD (2013-14)                    | 12                    | 07       | 07       | 00 | ---             |
| PhD (2012-13)                    | 11                    | 05       | 05       | 00 | ---             |
| PhD (2011-12)                    | 09                    | 04       | 02       | 02 | ---             |
| PhD (2010-11)                    | 00                    | 00       | 00       | 00 | ---             |

\*M = Male \*F = Female

### 33. Diversity of students

| Name of the Programme | Year      | % of Students from the same University | % of Students from other Universities within the state | % of Students from Universities outside the state | % of Students from other countries |
|-----------------------|-----------|--|--|---|------------------------------------|
| <b>B. Tech</b>        | 2010-2011 | 0%                                     | 98%  | 0%  | 0%                                 |
|                       | 2011-2012 | 0%                                     | 98%  | 0%  | 0%                                 |
|                       | 2012-2013 | 0%                                     | 0%   | 0%  | 0%                                 |
|                       | 2013-2014 | 0%                                     | 0%   | 0%  | 0%                                 |
|                       | 2014-2015 | 0%                                     | 0%   | 0%  | 0%                                 |
| <b>M. Tech</b>        | 2010-2011 | 100%                                   | 0%   | 0%  | 0%                                 |
|                       | 2011-2012 | 100%                                   | 0%   | 0%  | 0%                                 |
|                       | 2012-2013 | 100%                                   | 0%   | 0%  | 0%                                 |
|                       | 2013-2014 | 100%                                   | 0%   | 0%  | 0%                                 |
|                       | 2014-2015 | 100%                                   | 0%   | 0%  | 0%                                 |

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Approximately **30%** students are getting qualified in GATE every year.

### 35. Student progression

| Student progression              | Against % enrolled  |
|----------------------------------|---------------------|
| UG to PG                         | 3                   |
| PG to M.Phil.                    | NIL                 |
| PG to Ph.D.                      | 11                  |
| Ph.D. to Post-Doctoral           | NIL                 |
| <b>Employed</b>                  | <b>2011: 91.78%</b> |
| Campus selection:                | <b>2012: 74.68%</b> |
| Other than campus recruitment:   | <b>2013: 91.78%</b> |
| Entrepreneurship/Self-employment | NIL                 |

**36. Diversity of staff**

|  |       |
|--|-------|
| Percentage of faculty who are graduates of the same university                   | 38.1  |
| Percentage of faculty who are graduates from other universities within the State | 57.15 |
| Percentage of faculty who are graduates from universities from other States      | 4.75  |
| Percentage of faculty who are graduates from universities outside the country    | NIL   |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 01**

**38. Present details of departmental infrastructural facilities with regard to**

**a) Library**

| Infrastructural Facilities | Room Size    | No. of Books  | No. of M.Tech Thesis | No. of Journals | Avg. No. of books issued per semester |
|----------------------------|--------------|---------------|----------------------|-----------------|---------------------------------------|
| Library                    | 30ft x 30 ft | 1400(Approx.) | 400 (Approx.)        | 250 (Approx.)   | 02                                    |

**b) Internet facilities for staff and students**

**Total PC: 21**

**No. of PCs with net connected: 21**

**c) Total number of class rooms: 07**

| No of Class Rooms | Size          |
|-------------------|---------------|
| 07                | 40 ft x 30 ft |

**d) Class rooms with ICT facility: Yes**

**e) Students' laboratories**

| Name of the Laboratories | Size           |
|--------------------------|----------------|
| Thermal Lab              | 110 ft x 55 ft |
| Material Testing Lab     | 140 ft x 40 ft |
| CAD- CAM Lab             | 40 ft x 40 ft  |
| Vibration Lab            | 40 ft x 30 ft  |
| Hydraulic M/C Lab        | 60 ft x 40 ft  |
| Metrology Lab            | 40 ft x 30 ft  |

**f) Research laboratories: 01(20ftx30ft)**

**39. List of doctoral, post-doctoral students and Research Associates**

**(a) from the host institution/university :**

| <b>Name of doctoral students</b> | <b>Year of award</b> |
|----------------------------------|----------------------|
| S. S. Nayak                      | 2009                 |
| M. K. Mohapatra                  | 2011                 |
| M. R. Dash                       | 2010                 |
| M. Pradhan                       | 2012                 |
| S. Babu                          | 2012                 |

**(b) from other institutions/universities: The list of students who have completed M. Tech from other universities and pursuing Ph. D. are as follows:**

- |                  |                   |                     |                 |
|------------------|-------------------|---------------------|-----------------|
| 1. S. Panda      | 7. N. Deep        | 13. S. K. Pattanaik | 19. S. R. Nayak |
| 2. SVH Nagendra  | 8. P. R. Swain    | 14. J. Dehury       | 20. S. Mishra   |
| 3. R. K. Sarangi | 9. S. B. BPJ Sahu | 15. A. R. Mallick   | 21. A. K. Sahu  |
| 4. S. K. Subudhi | 10. P. K. Jena    | 16. S. Sethy        |                 |
| 5. S. K. Sahoo   | 11. A. K. Beura   | 17. D. Pani         |                 |
| 6. T. K. Panda   | 12. S. Nayak      | 18. A. C. Jena      |                 |

**40. Number of post graduate students getting financial assistance from the university.**

| <b>Year</b>    | <b>No. of students</b> |
|----------------|------------------------|
| <b>2010-11</b> | NIL                    |
| <b>2011-12</b> | 08                     |
| <b>2012-13</b> | 07                     |
| <b>2013-14</b> | 18                     |
| <b>2014-15</b> | 50                     |

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- Development of a new program is done on the basis of need of nearby industries, different stake holders and above all the society and the same is placed before departmental faculty meeting.
- Feed-back/inputs are taken from stake holders and various industries.
- Inputs are also taken from different NITs, and IITs.
- Then the department prepares a draft curriculum.
- Discussion & preparation of new course curriculum in the Department by Board of Studies.
- University level Workshop is conducted to finalise the proposed course structure of all the department headed by Vice-Chancellor.
- The proposed course structure of the new program is placed for approval by the Academic council.

- Then it is sent to the board of management (BOM) and Govt. For final approval.

**42. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

Department take feedback regarding curriculum from faculty members time to time and accordingly the curriculum is modified. Regarding teaching-learning evaluation, the department follows a transparency in the evaluation process by showing evaluated answer papers to the students.

**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Departmental meeting is conducted time to time with the students and their inputs regarding curriculum are taken into consideration for improvement of the system. Evaluated papers are shown to the students and the student grievances are also entertained. After getting the feedback from the students the distribution of loads are properly balanced by senior and junior faculty members. Also improvement in teaching-learning process is done by conducting quiz, group discussions giving assignments etc. Based on the students input, ASME student chapter is to be shortly started.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Workshops are being conducted time to time with alumni regarding improvements in curriculum. Some of the distinguished alumina are board members who share their views in the curriculum development. Separate meetings are also conducted with parents to get their feedback.

**43. List the distinguished alumni of the department (maximum 10)**

| Sl.No. | Name                             | Yr. of Passing | Designation         | Company                |
|--------|----------------------------------|----------------|---------------------|------------------------|
| 1      | Er. R. P. Panigrahi              | 1967           | General Manager,    | OCL, Rajgangpur        |
| 2      | Manas Bhadra                     | 2009           | Scientist           | ISRO                   |
| 3      | Prof. A.K. Mohanty               | 1962           | Ex- Deputy Director | IIT Kharagpur          |
| 4      | Late Ajit Mohapatra              | 1961           | CMD                 | Kalinga Engineers Ltd. |
| 5      | M. K. Mohanty                    | 1965           | Vice President      | L&T ACC                |
| 6      | Late Prof. Ashwini Kumar Mohanty | 1962           | Professor           | IIT Kharagpur          |
| 7      | Prof. B.B. Pradhan               | 1970           | Professor           | IIT Kharagpur          |
| 8      | Banbir Dash                      | 1965           | Additional DG       | Ministry of Defence    |
| 9      | Prof. K.C. Singh                 | 1969           | Former Principal    | UCE Burla              |
| 10     | Prof. A. Mishra                  | 1972           | Former Principal    | IGIT Sarang            |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Time to time special lectures, workshops seminars are being conducted between the students and faculties of the department. Besides that some of the programs conducted are given below:

| Sl. No. | Session | Date       | Name & affiliation of the expert/ speaker                        | Topic   | Number of Students enrolled |
|---------|---------|------------|--|---|-----------------------------|
| 1       | 2012    | 06/08/2012 | Er. R. P. Panigrahi, General Manager, OCL, Rajgangpur            | Total Quality Management  | 120                         |
| 2       | 2012    | 07/11/2012 | Prof. M. L. Kansal, WRD & Management, IIT Roorkee                | Reliability Analysis of water supply schemes                                | 150                         |
| 3       | 2012    | 07/11/2012 | Prof. S. Dutta, Professor, Civil Engg., IIT Guwahati             | Management of Brahmaputra Basin   | 150                         |
| 4       | 2012    | 24/11/2012 | Prof. A. K. Keshari, Professor, Civil Engg., IIT Delhi           | Emerging Technologies in water sector                                       | 100                         |
| 5       | 2013    | 17/01/2013 | Er. S. Hota, Data Scientist, MA, USA                             | Text classification methods using NLP computational linguistics & use cases | 110                         |
| 6       | 2013    | 26/07/2013 | Mr. G. Pothal, Research consultant, SRIC, IIT, Kharagpur         | Odia Wikipedia  | 95                          |
| 7       | 2013    | 17/12/2013 | Prof. K. L. Chopra (Padamshree), Former Director, IIT, Kharagpur | Nano-Technology   | 200                         |

**45. List the teaching methods adopted by the faculty for different programmes.**

The following teaching methods are adopted by the faculty members for different programmes:

- **Class room Lecture:** A lecture is delivered to a large number of learners by a faculty. A conventional lecture is of 50 minutes. The emphasis is given on fundamentals of the

subjects and the students are encouraged to interact with the faculty freely inside the class.

- **Tutorial classes:** Tutorial classes are conducted to address student's doubts/confusion. However, the tutorial classes are not exclusively specified in the course curriculum. The number of tutorial classes for the four years is conducted as per the requirement.
- **Group Discussions:** Group Discussion is conducted on regular basis to extract the ideas of the student as well as faculties on various subject as well as technologies. Students are encouraged to share their new ideas.
- **Seminars:** For final year UG students and all PG students presentation through seminar is in their curriculum and carried out on regular basis. The students either present industrial projects or topic from research papers.
- **Web Based learning:** Digitized Lecture notes and lesson plans are uploaded on the university website for students references.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The University has developed a proctoral system to guide and mentor a group of students from first year to final year. A group of 20 students in the first year are attached to a teacher. The teacher is advised to monitor the regularity in attendance and performance of the student in academics. In addition to the above, the teacher is expected to offer counselling human values and core principles of success to the students.
- The University invites experts and arranges Lectures and orientation programmes to offer training to the students in several aspects of engineering. The University also arranges soft skill training programmes regularly for the benefit of the students so that they can face the campus recruitments conducted by various recruiting agencies.
- There is a Departmental library where research papers published in national and international journals are available for the students to update their information on research works. Department always take effective steps to increase the number of books and journals in the departmental library.
- Digitised lecture notes are put on the University website for better understanding of the subjects.
- Industrial tour is provided to the students so that they can be exposed to the new instruments and equipments.
- Faculties are teaching with latest methods including Power Point Presentation.
- The strengths and weaknesses of the course curriculum are regularly improved by holding discussions with the students, faculty members, administrators and alumni.
- Different types of course assessment and evaluation methods are followed:

| <b>Type of Assessment</b>   | <b>Learning outcomes</b>  |
|---|---|
| Regular practical work, exercises, laboratory work, problems to solve, reflective learning statements, self test. | <ul style="list-style-type: none"> <li>• Keeps students 'on task'</li> <li>• Can encourage application, translation and interpretation of concepts learnt.</li> </ul>   |
| Assignments   | <ul style="list-style-type: none"> <li>• Opportunity to develop an extended argument</li> <li>• Can achieve depth rather than breadth of learning</li> <li>• Opportunity to problem pose and conduct inquiry</li> <li>• Opportunity to explore the boundaries of what is known</li> </ul> |
| Group Work  | <ul style="list-style-type: none"> <li>• Communication of ideas</li> <li>• Encourages independence</li> <li>• Collaboration and co-operation</li> <li>• Opportunity for authentic skill development</li> </ul>  |
| Quiz  | Enhance the knowledge as well as skills of a student.<br>It is a competition where a student competes to surpass others.  |
| Sessionals  | Gives feedback to the teacher.  |
| Mid Semester Exam   | The examination is conducted for a total mark of 20 with time duration of 2 hours. The concerned class teacher makes the question.  |
| Final Exams   | Assurance that students have attained the appropriate knowledge, skills and dispositions  |
| Projects  | <ul style="list-style-type: none"> <li>• Authentic, real world tasks</li> <li>• Capture students' interests</li> </ul>  |
| Attendance  | <ul style="list-style-type: none"> <li>• The attendance of students is monitored continuously and defaulter students are counseled if the attendance is below 75%.</li> <li>• Minimum 65% attendance with medical certificate is required.</li> </ul>                                     |

**47. Highlight the participation of students and faculty in extension activities.**

**FACULTY ACTIVITIES**

| <b>Name of faculty</b> | <b>Extension activities</b> |
|------------------------|-----------------------------|
| Dr. P. Das             | SSG                         |
| Dr. J. R. Mohanty      | University seminar          |
| Mr. A. Mohanty         | Dramatic society            |
| Mr. M. K. Sutar        | Mechanical Engg. Society    |
| Debasmita Mishra       | University Cultural Events  |



## STUDENTS ACTIVITIES

- In view of imparting a sense of social responsibility and inculcating ethical values, the University has an NSS unit which helps the students for social interaction. There is a **Sanskar Kendra** formed by the NSS unit. The students of this Kendra regularly interact with the children of the nearby villages for educating them free of cost during their leisure time.
- The University has a **Literary Society** and the faculty members of the society organizes various competitions such as essay, debate, quiz, creative writing and topics of burning issues of current affairs with a social interest.
- There is a **Cultural Association Club** of the University and the assigned faculty members organizes the Annual Cultural Fest in which the students of the University participate in cultural activities exposing their inherent skills and talents in front of large number of spectators.
- **The Athletic Club** of the University provides a great scope to the students to prove themselves physically and help in imbibing sportsman spirit in them. The students of the University achieved great success in various competitions organized in the University or outside the university by the support of the faculty members associated with the club. The University offers sports facilities in several disciplines such as cricket, volleyball, basket ball, badminton, football, hand ball, table tennis and Gym. All the sports activities are properly managed by the Professor Sports-Incharge.
- A **Society of Automotive Engineers (SAE)** collegiate and Robotic Clubs are also functioning in the University. This SAE collegiate club of “Veer Surendra Sai University of Technology “has been participating in various national and international level competitions since last four years and is actively associated with all automobile related advancements. This club has achieved many milestones including successful fabrication of four self-engineered vehicles with special features and filing of number of patents by club members for various innovations in the field of automobile engineering.
- A **Society of Automotive Engineers (SAE)** collegiate and Robotic Clubs are also functioning in the University. The achievements of the these clubs are given below:

### **SAE collegiate Club:**

This SAE collegiate club of “Veer Surendra Sai University of Technology “has been participating in various national and international level competitions since last four years and is actively associated with all automobile related advancements. This club has achieved many milestones including successful fabrication of four self-engineered vehicles with special features and filing of number of patents by club members for various innovations in the field of automobile engineering.

### **Achievements in various events:**

#### **BAJA SAE INDIA**

It is an international level event organised by **SAE India** held at NATRAX, Indore annually. In this event, the under-graduate students have to form a team, design and fabricate a self-

engineered **All-Terrain Vehicle** using college facilities and participate in various static and dynamic events. It aims at inducing and improving industrial & management qualities in students by making them to work as a small fictional manufacturing company of 25 members.

### 2012

- A team of 25 members of this club fabricated one of its kind All-Terrain Vehicle for the first time.
- Participated in BAJA SAE INDIA 2012 for the first time and secured an overall all India rank of 51st in their first attempt out of 257 teams registered.
- Featured on the cover page of “OVERDRIVE”, a popular automobile magazine.

### 2013

- Participated in BAJA SAE INDIA 2013 with new ATV incorporated with **two patented technologies** patented by team members.
- Secured overall **55<sup>th</sup>rank** out of **296 teams** registered.

### 2014

- Participated in BAJA SAE INDIA 2014 with one of the most cost effective vehicle of the event.
- Placed among top **5 teams** for Computer Aided Engineering Award sponsored by ANSYS.
- Design Report of the vehicle was selected among **top 20 best design reports**.
- Secured **19<sup>th</sup>rank** in acceleration event.
- Secured overall rank of **34<sup>th</sup>** out of **357** teams shaving the Top rank among the teams from Odisha.

### SUPRA SAE INDIA

It is a national level competition which presents the under graduate engineering students the task of designing, modelling and fabricating a **FORMULA Type Racing Car**. This event helps the **SAE India student members** to face the challenges involved in different industrial processes.

### 2014

- Participated in Virtual Simulation Round of **SUPRA SAE India** and bagged All India **rank 11<sup>th</sup>** out of **170** participating student teams from all over the country. Team secured **2<sup>nd</sup> best** rank in Odisha
- Veer Racers was the **only debutant team** from eastern zone to have made it to the **top 12** of the competition.
- They had participated in the main event during 16<sup>th</sup> July 2014 to 20<sup>th</sup> July 2014 at Madras Motor Racing Track, Chennai.

## **PATENTS Filed and Innovation by Club Members**

- 1. Clutch Slip Lock Drive (CLSD):** CLSD on the power train facilitates an optional 4 wheel drive to the vehicle. It caters the need of economically feasible switching between 4WD and 2WD.

Patent Filed By: **Rajendra Kumar Sinku**

Application Number: 724/KOL/2012

Filed Date: 02nd July, 2012.

- 2. Steering Assisted Brakes Steer (SABS):** SABS system during maneuverability actively brakes the inner rear wheel to help the vehicle take a turn. When the rack travels to the extreme position the inner wheel is braked so as to decrease the turning radius and help during sharp cornering. Though this system increases steering effort at the end, it helps to return the rack to its neutral position.

Patent Filed By: Sahil Sankalp Patel

### **48. Give details of “beyond syllabus scholarly activities” of the department.**

- Professional societies such as “Mechanical Engineering Society” is functioning effectively and organizes National level technical symposium, guest lectures, technical events such as model contest, poster presentation, design contest etc.
- The students are members of various professional bodies like SAE India and participated in national and international events.
- The students are encouraged to participate in various regional level and national level technical events organized by other Institutions/universities.

Students also organize cultural fest and literary fest every year.

- In order to apply the concepts learned, activities like model making contest, paper/poster /design contests are conducted regularly in the intra department level.
- Students also encouraged to participate in sports activities within the University and conducted by other Institutions/universities.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities like Promotion of computer literacy among rural people etc.
- Students are encouraged to participate in Value added programmes.
- Industrial visits are arranged regularly and in-plant training is also encouraged.

### **49. State whether the programme/ department is accredited/ graded by other agencies?**

Yes, Accredited by NBA 27/07/2006 for five years.

### **50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Dr. J R Mohanty is investigating studies on acoustic behaviour of natural fibre composite material in his project funded by DRDO.
- Dr. S K Sarangi has successfully investigated studies on surface engineering in Diamond coating; in the project funded by AICTE and DST.
- Dr. P K Pradhan has investigated Fault diagnosis of Machine elements in his PhD work at IIT Kharagpur.
- A. Mohanty implemented the Level Set method in capturing the free surface dynamics during melting and solidification in Laser and Electron beam welding process in his PhD work at IIT Kharagpur .
- Dr. P Dash investigated Buckling and post-buckling response of laminated composite plate with random system properties in his collaborative Research work with Prof B. N Singh .

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**STRENGTH:**

- 60 years old Department with highly placed alumini in various organizations and institutions across the globe.
- Highly qualified, experienced and dedicated faculty is the pillar of support of the department
- A significant number of faculties with Ph.D. qualification.
- High faculty retention rate.
- Well equipped Laboratories
- Well experienced non-teaching staff.
- The performance of the students of the Department in the Campus Recruitment has been good.
- A department Library with adequate books and Journals

**WEAKNESS:**

- Unable to fully harness the expertise of alumni.
- Additional space for expansion of classrooms and laboratories.
- The areas of funded research projects, and consultancy work need to be strengthened.

**OPPERTUNITIES:**

- Collaboration with industry for joint research and consultancy.
- Collaborative research work with premier research institutions / foreign universities.
- Highly qualified faculty in all specializations to start an interdisciplinary new P.G. programme & research.
- To file Patent of developed products / concepts / technologies in the thrust areas such as Composite material, fatigue and fracture, Renewable energy, surface coating technologies etc.

### **CHALLENGES:**

- To upgrade the laboratories of the department to meet the state of the art equipment at national and international level.
- To increase the number of external funded projects and consultancy works by competing with premier institutions.
- Motivating students towards focussed learning and research.

### **52. Future plans of the department.**

- Set up Department research committee to identify and form work-groups in the key areas of research.
- Set up Centre of Excellence on Alternate/Renewable Energy resource, Nano Technology.
- Department hopes to enlarge it by opening dual degrees.
- Enhance the student experience through improved alumni interactions.
- Improving the Department Library by procuring Books and Journals.
- Initiating process to open ASME Student Chapter.
- To focus on transformative research.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Department of Production Engineering
2. **Year of establishment :** The department of Production Engineering named as Manufacturing Science and Engineering since 1996 and given status as Production Engineering in the year of 2011.

3. **Is the Department part of a School/Faculty of the university?**

Yes, the department is the part of a faculty of the university.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): UG, PG, Ph.D:**

The department has been offering B. Tech in Production Engineering since its inception. Considering the need and demand, the department has subsequently offered M. Tech in Production Engineering with specialisation in Manufacturing System Engineering from the year 2011. The year of establishment and student strength is as follows:

| Sl. No | Names of Programmes   | Year of Estt. | Student Strength |         |         |         |         |
|--------|---|---------------|------------------|---------|---------|---------|---------|
|        |   |               | 2014-15          | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| 1      | UG (B. Tech) -<br><b>Production Engineering</b>                                     | 1996          | 60               | 60      | 60      | 60      | 30      |
| 2      | PG (M. Tech) -<br>Production Engineering<br>i) Manufacturing System<br>Engineering. | 2011          | 18               | 18      | 18      | 18      | -       |
| 3      | Ph. D (Production Engg)   | 2010          | 4                | 3       | 4       | 3       | -       |

5. **Interdisciplinary programmes and departments involved**

The other departments are involved in offering following courses for our department.

| Sl No | Courses                                   | Credit | Name of the Department |
|-------|---|--------|------------------------|
| 1     | Organizational Behaviour                  | 4      | Humanity               |
| 2     | Engineering Thermodynamics                | 4      | Mechanical             |
| 3     | Elements of Electrical Machines           | 4      | Electrical             |
| 4     | Machine Drawing                           | 4      | Mechanical             |
| 5     | Engineering Economics & Costing           | 4      | Humanity               |
| 6     | Materials Engineering and Metallurgy      | 4      | Metallurgy             |
| 7     | Fluid Mechanics & Fluid Power Engineering | 4      | Mechanical             |
| 8     | Mathematics III                           | 4      | Mathematics            |

|    |                             |   |  |
|----|-----------------------------|---|--|
| 9  | MathematicsIV               | 4 | Mathematics                                |
| 10 | Object Oriented programming | 4 | Computer science and engineering           |
| 11 | Thermal Lab                 | 4 | Mechanical                                 |
| 12 | Basic Electronics           | 4 | Electronics& Telecommunication Engineering |
| 13 | Basic Electrical            | 4 | Electrical Engineering                     |
| 14 | OOPS & Data Structure       | 4 | Computer science and engineering           |
| 15 | OOP Lab                     | 4 | Computer science and engineering           |

**6. Courses in collaboration with other universities, industries, foreign institutions, etc.:**

The department conducts various short term courses for faculties to enrich their teaching-learning capabilities under faculty development programme. Further, the department also regularly carries out various courses for the students to enhance their learning potential under different programmes like students training, internship, workshops, conferences, industrial visit etc. The MoUs to undertake specialized courses and research in collaboration with other Universities, Industries are in progress. However, the collaboration with foreign universities is yet to be finalized.

**7. Details of programmes discontinued, if any, with reasons:**

No programme has been discontinued by the department so far.

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System**

The department has implemented Semester system for UG & PG programs along with elective courses offered in 7<sup>th</sup> and 8<sup>th</sup> semester. However, the academic council of the university has already approved choice based credit system from the academic session 20115-16.

| UG (B. Tech)    |        |                 |        | PG (M. Tech)    |        |
|-----------------|--------|-----------------|--------|-----------------|--------|
| Semester        | Credit | Semester        | Credit | Semester        | Credit |
| 1 <sup>st</sup> | 28     | 5 <sup>th</sup> | 28     | 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     | 6 <sup>th</sup> | 28     | 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 28     | 7 <sup>th</sup> | 24     | 3 <sup>rd</sup> | 15     |
| 4 <sup>th</sup> | 28     | 8 <sup>th</sup> | 24     | 4 <sup>th</sup> | 25     |

**9. Participation of the department in the courses offered by other departments:**

The faculties of the department are involved in providing different courses to other departments in the following ways.

| Name of the Subject                 | Credit | Department involved |
|-------------------------------------|--------|---------------------|
| Tribology                           | 4      | Mechanical          |
| Theory of elasticity and plasticity | 4      | Mechanical          |
| Robotics and FMS                    | 4      | Mechanical          |

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

| Posts               | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 04         | 02     | 02                           |
| Associate Professor | 04         | 00     | 00                           |
| Assistant Professor | 12         | 02     | 02                           |

The department has already engaged 04 numbers of faculties in contract basis smooth functioning of the department. However, advertisement for the same has been made and the posts will be filled up shortly.

**11. Faculty profile with name, qualification, designation, area of specialization:**

The department has currently four faculties having their highest qualification as PhD. The following details of their profiles are:

| Name             | Qualification | Designation         | Specialization   | No. of Years of Experience | No. of Ph.D. / M. Tech Students Guided/ Guiding for |
|------------------|---------------|---------------------|------------------|----------------------------|---|
| Prof. D.Mishra   | PhD           | Professor           | Production Engg  | 23                         | 5/14  |
| Prof. D.Dhupal   | PhD           | Professor           | Production Engg. | 12                         | 5/6   |
| Dr.S.Panda       | PhD           | Assistant Professor | Machine Design   | 09                         | 5/10  |
| Dr.K.Pal         | PhD           | Assistant Professor | Production Engg  | 08                         | 5/6   |
| Prof. A. Pujari  | M.Tech        | Contractual         | Production Engg  | 01                         | NIL   |
| Prof. S. Sahoo   | M.Tech        | Contractual         | Production Engg  | 01                         | NIL   |
| Prof. R.Rout     | B.Tech        | Contractual         | Production Engg  | 01                         | NIL   |
| Prof. A.Maharana | B.Tech        | Contractual         | Production Engg  | 01                         | NIL   |

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

The department arranges the meeting regularly by inviting senior visiting professors to have an interaction with faculties and students. They are invited in workshops/FDPs/conferences conducted by the department. The list of faculties along with their organization who visited



the department is furnished below:

| SI No | Name              | Organization |
|-------|-------------------|--------------|
| 1     | Prof. B.B.Biswal  | NIT Rourkela |
| 2     | Prof. S.K.Acharya | NIT Rourkela |
| 3     | Prof. K.P.Maity   | NIT Rourkela |
| 4     | Er. S.M.Mohapatra | MCL          |
| 5     | Prof. B.K.Nanda   | NIT Rourkela |

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

Four numbers of temporary faculties were engaged on part-time basis who took 30% of the classes in B. Tech courses.

Four numbers of temporary faculties were engaged on part-time basis who took 20% of the classes in M. Tech courses.

**14. Programme-wise Student Teacher Ratio:**

UG: 30:1 & PG: 9:2

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

|                      | Sanctioned | Filled |
|----------------------|------------|--------|
| Administrative Staff | 02         | 00     |
| Technical/Academics  | 03         | 03     |

**16. Research thrust areas as recognized by major funding agencies:**

The faculties and students of the Department conduct major research in the laboratories of the department. The research thrust areas recognized by funding agencies are as follows:

- Non Traditional Machining
- Robotics and Flexible Manufacturing Systems
- Tool Condition Monitoring
- Welding process optimization
- Casting process modeling

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received.**

The department has already received about 50 Lakhs in different schemes like BPUT, AICTE funding agencies. Presently the faculties have applied for more projects which are in process of approval.

**18. Inter-institutional collaborative projects and associated grants received**

**a) National collaboration:**

The department is already involved in conducting collaborative projects with IIT

Roorkee, IIT Delhi, NIT Rourkela, IIT Bombay, IIT Bhubaneswar, IIM Raipur etc.

**b) International collaboration:**

Department is in a process to sign MoU with technical institutions and organizations.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

| SL. No. | Principal Investigator | Project Title   | Sanction Amount in lacks | Year of sanctioned | Funding Agency |
|---------|------------------------|---|--------------------------|--------------------|----------------|
| 1.      | Dr. D. Mishra          | Acoustic Analysing System   | 12.5                     | 2006-07            | BPUT           |
| 2.      | Dr. D. Mishra          | Modernization of Metal Machining Laboratory for imparting Education and Training in CNC Machining | 11                       | 2007-08            | AICTE          |
| 3.      | Dr. D. Mishra          | Agent based Planning and Control of Multi-robot Assembly System                                   | 11                       | 2007-08            | AICTE          |
| 4.      | Dr. D. Mishra          | Modernization of Metal Machining Laboratory for imparting Education and Training in CNC Machining | 15                       | 2008-09            | AICTE          |

\*The department has already received Rs.10 lakhs from TEQIP and 5 lakhs from UGC towards program of research and development of laboratory.

**20. Research facility / centre with**

- **State recognition:** The Government of Odisha has recognized the department as a nodal center for the establishment of technology lab in the areas of robotics, NTM.
- **National recognition:** It has been recognised as QIP center for PhD programme.
- **International recognition:** The department is actively considering the proposals received from other international organization to sign MOUs to initiate both faculty and student interchange programme.

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**

The department is actively engaged in conducting research in its well-equipped laboratory. The department is in the process of signing MOUs with the industries for development of the laboratory.

**22. Publications:**

The faculties have published 27 numbers of papers in the journals and 25 numbers in conferences. The detail no of publication of each faculty is furnished below:

a) Publications per faculty-

| Name of the faculty | Publications |    |             |    |         |    |             |    |         |    |             |    |
|---------------------|--------------|----|-------------|----|---------|----|-------------|----|---------|----|-------------|----|
|                     | 2012-13      |    |             |    | 2013-14 |    |             |    | 2014-15 |    |             |    |
|                     | Journals     |    | Conferences |    | Journal |    | Conferences |    | Journal |    | Conferences |    |
|                     | N            | IN | N           | IN | N       | IN | N           | IN | N       | IN | N           | IN |
| Prof D Mishra       | 01           | 3  | 1           | 1  | 0       | 3  | 1           | 2  | 1       | 1  | 1           | 0  |
| Prof D. Dhupal      |              | 3  | 1           | 1  | 0       | 3  | 2           | 3  |         | 2  | 1           | 1  |
| Dr. S. Panda        |              | 3  | 1           | 0  | 0       | 3  | 1           | 2  |         | 1  | 0           | 1  |
| Dr. K. Pal          |              | 1  | 1           | 0  | 0       | 3  | 0           | 2  |         | 1  | 0           | 2  |

- **Monographs:** NIL
- **Chapter in Books:** 03
- **Books Edited:** 03
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Books with ISBN/ISSN numbers with details of publishers:** 02
- **Citation Index – range / average :** 21-76/56
- **SNIP:** 3.213
- **SJR:** 0.812
- **Impact Factor – range / average:** 4 / 1.4
- **h-index :** 05

**23. Details of patents and income generated:**

Nil

**24. Areas of consultancy and income generated:**

The faculty members are actively engaged in non-profit activities which is mostly helpful to students improve their knowledge in the field of latest technology.

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:**

Department faculties are visiting both national / International laboratories / institutions like IITs, NITs, IIMs, Jadavpur University, Kolkata, University of Peradeniya Colombo etc.

**26. Faculty serving in**

- a) **National committees:** 05 ( AICTE,TEQIP and NACC)
- b) **International committees:** 05
- c) **Editorial Boards:** 02
- d) **any other (please specify):**
  - i) Prof D Mishra is a member of Editorial Board of CenturianJournal of Interd
  - ii) The faculty members are reviewer of the following Journals
    - 1) Applied Soft Computing (Elsivier)
    - 2) Engineering Optimization (Taylor and Francis)
    - 3) International Journal of Advanced Manufacturing) (Springer)
    - 4) Journal of Industrial Robotics (Emerald)
    - 5) I.Mech.E. journal of Mechanical Science Part-J (SAGE)
    - 6) SAE Transactions

**27. Faculty recharging strategies: Seminar, Conferences, workshop and short-term courses; Strategies attended for year 2010 to 2015;**

| Sl. No. | Faculty Recharging Strategies                        | 2014 -15 | 2013 -14 | 2013 -12 | 2012 -11 | 2011 -10 |
|---------|--|----------|----------|----------|----------|----------|
| 1       | Refresher/orientation Programs /conference & seminar | 02       | 02       | 01       | 01       | 01       |
| 2       | Workshops  | 02       | 01       | 01       | 01       | 02       |
| 3       | Tanning Programs / Short Term course                 | 01       | 01       | 01       | 01       | -        |
| 4       | Any others   | -        | -        | -        | -        | -        |

**28. Student projects**

- Percentage of students who have done in-house projects including inter-departmental projects: 100%
- Percentage of students doing projects in collaboration with other universities / industry / institute: 10%

**29. Awards / recognitions received at the national and international level by**

- **Faculty:** 05
- **Doctoral / post doctoral fellows:** Nil
- **Students:** 04

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| Sl.No | Event Organized  | Name of the Event | Date of event      | Sourceof Funding |
|-------|------------------|-------------------|--------------------|------------------|
| 1     | National Seminar | RAIMS-13          | October 26-27,2013 | TEQIP            |
| 2     | National Seminar | RAIEE-14          | April 6-7,2014     | TEQIP            |

### 31. Code of ethics for research followed by the departments:

All the registered Ph.D research works carried out under a supervisor has a Doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. The entire thesis is scrutinized by plagiarism software for any malpractices. The M.Tech and B.Tech thesis are scrutinized by the concerned guide and reviewed by the academic committee. A national level student symposium is being organized every year where the B.Tech students in the national level are encouraged towards research interest by presenting technical papers, poster presentation.

### 32. Student profile programme-wise:

The students who undertake the B. Tech programme in the department are being selected from IIT-JEE main merit list conducted by CBSE. The lateral entry students who undertake the B. Tech programme in the department are being selected from OJEE merit list. The students who undertake the M. Tech programme in the department are being selected from GATE merit list. If any seat at PG level is found to be lying vacant, the seats are being offered to non-gate students strictly on merit basis.

Five year data of Production Engineering passed-out students are shown in the following table.

| Name of the Course/programme: UG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| B.Tech (2013-14)                 | IIT-JEE(Main)         | 66       | 48       | 18 | 100%            |
| B.Tech (2012-13)                 | OJEE                  | 66       | 46       | 20 | 100%            |
| B.Tech (2011-12)                 | OJEE                  | 38       | 25       | 13 | 100%            |
| B.Tech (2010-11)                 | OJEE                  | 38       | 27       | 11 | 100%            |
| B.Tech (2009-10)                 | OJEE                  | 38       | 28       | 10 | 100%            |

\*M = Male \*F = Female

| Name of the Course/programme: PG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| M.Tech (2013-14)                 | 42                    | 15       | 10       | 05 | 100%            |
| M.Tech (2012-13)                 | 07                    | 05       | 04       | 01 | 100%            |
| M.Tech (2011-12)                 | 06                    | 06       | 04       | 02 | 100%            |
| M.Tech (2010-11)                 | 00                    | 00       | 00       | 00 | ---             |
| M.Tech (2009-10)                 | 00                    | 00       | 00       | 00 | ---             |

\*M = Male \*F = Female

| Name of the Course/programme: PG | Applications received | Selected | Enrolled |    | Pass percentage |
|----------------------------------|-----------------------|----------|----------|----|-----------------|
|                                  |                       |          | *M       | *F |                 |
| PhD (2014-15)                    | 22                    | 08       | 08       | 00 | ---             |
| PhD (2013-14)                    | 20                    | 06       | 05       | 01 | ---             |
| PhD (2012-13)                    | 00                    | 00       | 00       | 00 | ---             |
| PhD (2011-12)                    | 00                    | 00       | 00       | 00 | ---             |
| PhD (2010-11)                    | 00                    | 00       | 00       | 00 | ---             |

\*M = Male \*F = Female

### 33. Diversity of students

Being a State Government run University, the students from the state of Odisha are only eligible to undertake the B. Tech programme in the department. Only few students pursue their B.Tech programme in the department from North-East states of the country as Govt. of India Nominee. However, for M.Tech programs students both from state and outside states are eligible. The Govt. of Odisha reservation rules are strictly followed.

| Name of the Programme | Year      | % of Students from the same University | % of Students from other Universities within the state | % of Students from Universities outside the state | % of Students from other countries |
|-----------------------|-----------|--|--|---|------------------------------------|
| <b>B. Tech</b>        | 2007-2010 | NA                                     | 90   | 10  | NIL                                |
|                       | 2008-2011 | NA                                     | 90   | 10  | NIL                                |
|                       | 2009-2012 | NA                                     | 90   | 10  | NIL                                |
|                       | 2010-2013 | NA                                     | 90   | 10  | NIL                                |
|                       | 2011-2014 | NA                                     | 90   | 10  | NIL                                |
| <b>M. Tech</b>        | 2011-2013 | 10                                     | 90   | NIL   | NIL                                |
|                       | 2012-2014 | 15                                     | 85   | NIL   | NIL                                |
|                       | 2013-2015 | 13                                     | 87   | NIL   | NIL                                |
|                       | 2014-2016 | 18                                     | 77   | 5   | NIL                                |

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Apart from good percentage of placement of the students in the campus, the department also encourages the students for off-campus examinations like CSE, IES, GATE etc.

| Category | Exam                   | 2014 | 2013 | 2012 | 2011 | 2010 |
|----------|------------------------|------|------|------|------|------|
| UG       | Civil service          | 00   | 00   | 00   | 00   | 00   |
|          | Defence                | 00   | 01   | 01   | 00   | 00   |
|          | NET                    | 00   | 00   | 00   | 00   | 00   |
|          | SET                    | 00   | 00   | 00   | 00   | 00   |
|          | GATE                   | 10   | 11   | 9    | 5    | 3    |
|          | Other competitive exam | 02   | 00   | 00   | 01   | 00   |
|          | Civil service          | 00   | 00   | 00   | 00   | 00   |
|          | Defence                | 00   | 00   | 01   | 00   | 00   |

|    |                        |    |    |    |    |    |
|----|------------------------|----|----|----|----|----|
| PG | NET                    | 01 | 01 | 02 | 00 | 01 |
|    | SET                    | 00 | 00 | 00 | 00 | 00 |
|    | GATE                   | 03 | 01 | 01 | 01 | 01 |
|    | Other competitive exam | 00 | 01 | 00 | 01 | 00 |

**35. Student progression**

|  | 2014 | 2013 | 2012 | 2011 | 2010 |
|--|------|------|------|------|------|
| <b>UG to PG</b>                          | 5%   | 7%   | 2%   | 3%   | 2%   |
| <b>PG to Ph.D</b>                        | 5%   | 45%  | 20%  | 12%  | 8%   |
| <b>Ph.D to Post Doct.</b>                | 0    | 0    | 0    | 0    | 0    |
| <b>Employed Campus other than campus</b> | 57   | 30   | 31   | 32   | 30   |
|  | 4    | 1    | 2    | 0    | 1    |
| <b>Entrepreneurs</b>                     | 1    | 0    | 0    | 0    | 0    |

**36. Diversity of staff**

|  |     |
|--|-----|
| Percentage of faculty who are graduates of the same university                   | 25% |
| Percentage of faculty who are graduates from other universities within the State | 50% |
| Percentage of faculty who are graduates from universities from other States      | 25% |
| Percentage of faculty who are graduates from universities outside the country    | NIL |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 01**

**38. Present details of departmental infrastructural facilities with regard to**

- a) **Library:** Yes (250 books)
- b) **Internet facilities for staff and students :** LAN and WIFI are available to students and to each faculty rooms.
- c) **Total number of class rooms:** 02
- d) **Class rooms with ICT facility:** YES. All class rooms and laboratories
- e) **Students' laboratories:** 06
- f) **Research laboratories:** 01

|                           |  |
|---------------------------|--|
| Robotics/FMS Lab          | FMS for operation, CNC Lathe, CNC Milling, ASRS, Articulated robotics arm, Shuttle Conveyor etc.( both for research & students ) |
| NTM Lab                   | LMD,AJM,USM,EDM setups, Bicker Micro hardness Tester and Metallurgical Microscope setup  |
| Virtual Manufacturing Lab | RP ,IGRIP & SIMUL software   |

|                      |   |
|----------------------|---|
| Metrology Lab        | CMM, Profile Projector, Portable Surface Roughness Tester                 |
| Metal Forming Lab    | Sheet Bending Machine, Mechanical Press, Shearing machine                 |
| CAD/CAM/Robotics lab | Catia   |
| Metal Cutting LAB    | Tool Grinding, Lathe, Turning Tool Dynamometer and Drill Tool Dynamometer |

**39. List of doctoral, post-doctoral students and Research Associates**

**(a) from the host institution/university : 05**

**(b) from other institutions/universities: 09**

**40. Number of post graduate students getting financial assistance from the university.**

| Programme          | No of students     |
|--------------------|--------------------|
| M.Tech (2011-2012) | NIL                |
| M.Tech (2012-2013) | 1(TEQIP)+1(GATE)   |
| M.Tech (2013-2014) | 04(TEQIP)+04(GATE) |
| M.Tech (2014-2015) | 01(TEQIP)+06(GATE) |
| Ph.D-2011          | NIL                |
| Ph.D-2012          | NIL                |
| Ph.D-2013          | NIL                |
| Ph.D-2014          | 3                  |
| Ph.D-2015          | 1                  |

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- The department assesses the needs of the development of new programme by presenting the same before the departmental faculty meeting. The views of the faculty members based on their previous academic and industrial experience are sought by conducting mind-boggling discussions.
- Then departmental committee is constituted to ascertain the need and scope of the programme considering the market demand, status of the programme in the institutions already offering (both reputed institutions & private institutions), opinion from distinguished industry personalities, alumni etc.
- Based on the recommendation of the committee, detailed study on strength of the department to offer this programme is conducted.
- Then, a draft curriculum and syllabus is prepared by a committee comprising of faculty members with specialization in the subject programme.
- The draft curriculum is subjected to elaborate discussions in the faculty meeting for fine tuning and subsequent finalization.
- After approval from department, the draft is presented in the “Board of Studies”.



- After the approval from the Academic Council and the Board of Management the programme is offered in the Department.

**42. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- Faculties are directly involved in the preparation of syllabus, teaching learning process and evaluation.
- In the regular meetings chaired by HOD, feedback from staffs and students is obtained to further improve the curriculum and teaching learning process.
- Faculty members also represent in Board of studies and Academic council to express their feedback on both curriculum and teaching-learning process.
- Department level faculty meeting is conducted prior to Board of studies to get a feedback from faculty on curriculum, syllabus and teaching-learning process.
- Any modifications suggested by the faculty are scrutinized and accordingly appraised in the board of studies for its approval.
- Departmental Modernization Committee reviews the question paper setting process and evaluation of answer scripts. Any discrepancies found are appraised to the concerned faculty through Dean / HOD.

**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The students are given opportunity to express their views on curriculum, syllabus and teaching-learning process.
- The students give their feedback at regular intervals about the course content, teaching method and evaluation process.
- The student's feedback is considered in the performance appraisal scoring system (PASS) of the individual faculty.
- If the feedback of a faculty is not encouraging, he/she is counselled by the senior faculty, HOD and Dean.
- The student feedback has an impact on the Faculty Performance.
- The students' feedback on Curriculum, Teaching learning and Evaluation are also discussed in the appropriate forums like Department faculty meeting, Board of Studies, and Academic council.
- Based on the students' feedback, the curriculum and learning process is revised and revamped.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

- The Department conducts regular meeting consisting of the stakeholders like staff, students, alumni, parents, employers and look into these matters. Yearly two meetings of the stakeholders are conducted to get their inputs. The suggestions are incorporated as improvement / modification in the curriculum.

- Informal discussions are also made with alumni who completed their higher studies to get the input for the improvement of curriculum.

**43. List the distinguished alumni of the department (maximum 10)**

The department has produced many distinguished alumni since its inception. The list of few is presented here.

| Sl.No. | Batch     | Name                     | Company     | Designation      |
|--------|-----------|--------------------------|-------------|------------------|
| 1      | 2006-2009 | Er. Prasant Kumar Nayak  | TCS         | CONSULTANT       |
| 2      | 2006-2009 | Er. Alok Nanda           | TCS         | CONSULTANT       |
| 3      | 2007-2010 | Er. Saurav Kumar Panda   | TATA MOTORS | CONSULTANT       |
| 4      | 2007-2010 | Er. Agnish Panda         | TATA MOTORS | CONSULTANT       |
| 5      | 2008-2011 | Er. Manish Tripathy      | TATA MOTORS | CONSULTANT       |
| 6      | 2008-2011 | Er. Priyadarshini Mishra | L & T India | CONSULTANT       |
| 7      | 2009-2012 | Er. Biranchi Panda       | Infosys     | CONSULTANT       |
| 8      | 2009-2012 | Er. Gaurav Biswal        | TATA MOTORS | CONSULTANT       |
| 9      | 2010-2013 | Er. L. Deo               | ISRO        | SENIOR SCIENTIST |
| 10     | 2010-2013 | Er. P. Nagyak            | ISRO        | SCIENTIST        |

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

There are many student enrichment programmes has been held in the departments, by inviting the eminent personalities all over the country, regularly. Time to time the department conducts seminar, workshops, and special lectures for the benefit of the students. Some of them are listed below.

| Sl. No. | Name of the Programmes   |
|---------|--|
| 1       | Special Lecture on “Marketing Management ” by Er. P. Pal, Production Manager, Associate VP, AdhunikMetallics in GAMUT 2K14 |
| 2       | Workshop on NPTEL in March 2013  |
| 3       | Guest Lecture by Er. Ashes Padhi in GAMUT 2K13   |
| 4       | Special Lecture on Progress in Production Technology by Er. JayantNayak, AGM VedantaGAMUT 2K12                             |

With collaboration with the Training and Placement Cell, the following activities for enrichment of student knowledge

- 1) Personality Development Programs
- 2) Placement Assistance Programs

**45. List the teaching methods adopted by the faculty for different programmes.**

- Based on the previous experience and available expert guidance, various teaching methods such as, Black board, OHP presentation, LCD presentation, Smart board presentation, Software demos, illustration with physical models, Quiz, e-learning, industrial visit, students seminars presentation and distribution of soft/hard copy of handouts/PPT are used for various programmes offered by the department.
- Holistically, innovative teaching methods are included in the curriculum of various programmes.

The following teaching methods are adopted by the faculty members in the classrooms:

- Black board teaching in class rooms.
- Power point presentations/digitized lecture notes/Video lectures/OHPs are arranged to the students by the concerned faculty.
- Tutorial classes are conducted to improve the problem solving skills.
- Conducting remedial classes for poor learners to improve their academic performance.
- Assignment is given to students based on the need of the topic.
- Providing extra lab practice to all the students to improve the practical skills along with regular curriculum.
- Encouraging the students to deliver a seminar on topic related to subject in the allotted period.
- Arranging workshops/guest lecturers to students by eminent personalities from academic institutions and
- Industry to enhance the knowledge of student.
- Involving the students in technical exhibition to develop the application of computer science.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The examination system including, Class Tests, Mid-Semester Examination, End Semester Examination ensure that the programme objectives and outcomes are met through periodical reviews.
- Departmental meetings are conducted at regular intervals to monitor the teaching learning process and ensure that the programme objectives and outcomes are constantly met.
- In addition, a department conducts regular meetings comprising of all the stakeholders including, students, faculty, employers, parents, alumni and industries to review the system of ensuring programme objectives and outcomes through the teaching leaning process and evaluation methods.

**47. Highlight the participation of students and faculty in extension activities.**

| <b>Year</b> | <b>Activity</b>                   | <b>Place</b>   |
|-------------|-----------------------------------|----------------|
| 2015        | ABU ROBOCON                       | MIT, Pune      |
| 2015        | BAHASAE                           | NIT, BHOPAL    |
| 2015        | ROBOTRYST-2015                    | IIT, DELHI     |
| 2014        | TECHNO-MANAGEMENT FEST<br>KSHITIJ | IIT, KHARAGPUR |

**48. Give details of “beyond syllabus scholarly activities” of the department.**

The Department promotes various scholarly activities beyond syllabus to make the students aware of the latest trends in the profession and practical experience in the field at regular intervals through the following:

- Professional societies such as “Production Engineering Society” is functioning effectively and organizes National level technical symposium, guest lectures, technical events such as Quiz, poster presentation, Computer based design contest etc.
- The students are encouraged to participate in various regional level and national level technical events organized by other Institutions/universities.
- Students also organize cultural fest and literary fest every year.
- In order to apply the concepts learned, activities like model making contest, paper/poster /design contests are conducted regularly in the intra department level.
- Students also encouraged to participate in sports activities within the University and conducted by other Institutions/universities.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities like Promotion of computer literacy among rural people etc.
- Students are encouraged to participate in Value added programmes.
- Industrial visits are arranged regularly and in-plant training is also encouraged.

**49. State whether the programme/ department is accredited/ graded by other agencies?**

Before the institute became University the UG programme was approved by AICTE. We have applied for the NBA accreditation for both UG and PG programmes.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Production Engineering department is being serving to the nation and the people of the Production Engineering community since it is established in the year 1996. It is the oldest department in the state having its 06 number of laboratories, 1000 numbers of alumunies. The alumni of the department have been chairing and discharging their duties in various prestigious organizations and institutions in this country and abroad as well. Continuous thinking process with updating knowledge raises the department not only in the areas of research activities and competition with globalization but also shows the path for serving the social communities.

- Dr.D. Mishra has established the Robotics and FMS lab. in the department. He has also

contributed a lot to the manipulator design and path planning of mobile robot using soft computing tools.

- Dr.D. Dhupalhas developed the non-traditional lab and is active in machining of composite and ceramic material using Laser beam machining and abrasive jet machining.
- Dr.S. Panda has developed the metrology lab and the condition monitoring cell.hniques.
- Dr.K. Pal has contributed a lot to the advance welding for dissimilar material.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**STRENGTH:**

- First Production Engg. Department of the State (1996).
- 19 years old department with highly placed alumni in various organizations and institutions across globe.
- Highly qualified, experienced and dedicated faculty is the pillar of support of the department.
- A significant number of faculty with Ph.D. qualification.
- High faculty retention rate.
- Well-equipped laboratories with latest software.
- Good placement record.

**WEAKNESS:**

- Additional space for expansion of classrooms and laboratories.
- Poor connectivity to airports of the State.
- Lack of sufficient number of Technical supporting staff.

**OPPERTUNITIES:**

- More collaborative research work with premier research institutions / foreign universities.
- To start an interdisciplinary and industry based specialized PG. programme and research.

**CHALLENGES:**

- To transform the weakness into challenges.
- To increase the number of external funded projects and consultancy works by competing with premier institutions.
- Changing the attitude of students towards focused learning and research.
- Patent of developed products / concepts / technologies.
- More Projects from Industry.

**52. Future plans of the department.**

- To publish more papers in reputed journal and file more patents.
- To enhance inter-disciplinary research workswithmore PhD students.
- Various research projects will be applied to DST, UGC, DRDO, etc. for financial assistant.

- To start industry oriented certificate courses for the students to enhance their employability.
- Department is planning to open dual degree programmes by 2015-16.
- This will widen the scope for getting research scholars whom may later be posted as faculty in the dept. The project deliverable will help the department to improve in the areas of design and consultancy works.
- The department is planning to develop four laboratories in the area of Ergonomics, Industrial Engineering and management, Tribology and Welding.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Dept. of Metallurgy & Materials Engineering
2. **Year of establishment:** 2013
3. **Is the Department part of a School/Faculty of the university? –Yes**
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): UG**

| Programme of Study                      | Description                           |
|---|---------------------------------------|
| B. Tech in Metallurgy & Materials Engg. | Started in 2013 with intake of 60     |
|   | Approved by AICTE in 2013 for 5 years |

5. **Interdisciplinary programmes and departments involved**

| Name of the subjects                          | Semester        | Departments involved     |
|---|-----------------|--------------------------|
| Mathematics-I                                 | First Semester  | Mathematics              |
| Mathematics- II                               | Second Semester | Mathematics              |
| Mathematics- III                              | Third Semester  | Mathematics              |
| Mathematics-IV                                | Fourth Semester | Mathematics              |
| Physics; Physics Lab                          | Second Semester | Physics                  |
| Chemistry; Chemistry Lab                      | First Semester  | Chemistry                |
| Programming & Data structure; Programming Lab | First Semester  | Computer Science & Engg. |
| Basic Electrical Engg.; BEE Lab               | Second Semester | Electrical Engg.         |
| Basic Electronics; BE Lab                     | First Semester  | Electronics Engg.        |
| Environmental Science & engineering           | First Semester  | Civil Engg.              |
| English for communication                     | Second Semester | English                  |
| Engineering Economics & Costing               | Third Semester  | Humanities               |
| Organizational Behaviour                      | Fourth Semester | Humanities               |

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

Metallurgy and Materials Department is started in year 2013, so we have some national collaboration with IIT Kharagpur, IIT Bhubaneswar, CSIR-IIMT Bhubaneswar, CSIR-NML Jamshedpur, MANIT Bhopal, DMRL Hyderabad, and NIT Rourkela and some international collaboration with National Research Scientific (INRS), Quebec, Canada. But in near future we are going to make more collaboration with foreign institutions.

7. **Details of programmes discontinued, if any, with reasons:** Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
Semester System & Choice Based Credit System

| UG (B. Tech)    |        |
|-----------------|--------|
| Semester        | Credit |
| 1 <sup>st</sup> | 28     |
| 2 <sup>nd</sup> | 28     |
| 3 <sup>rd</sup> | 28     |
| 4 <sup>th</sup> | 28     |
| 5 <sup>th</sup> | 28     |
| 6 <sup>th</sup> | 28     |
| 7 <sup>th</sup> | 24     |
| 8 <sup>th</sup> | 24     |

**9. Participation of the department in the courses offered by other departments**

It is the only department, where uniquely all the classes are taken by department faculties. The department is serving two other departments for their undergraduate courses.

| Name of the Subjects<br>(Theory & Lab)           | Semester        | Name of other departments<br>involved |
|--|-----------------|---------------------------------------|
| Materials Engineering and Metallurgy<br>(Theory) | Fifth Semester  | Production Engineering                |
| Materials Engineering                            | Fourth Semester | Mechanical Engineering                |

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

| Posts               | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor           | 1          | 0      |
| Associate Professor | 4          | 0      |
| Assistant Professor | 11         | 6      |

**11. Faculty profile with name, qualification, designation, area of specialization**

| Sl No. | Name                | Qualification              | Designation        | Specialization                   | No. of Years of Experience | No. of Ph. D./M. Phil. Students Guided/Guiding for the last 2 Years |
|--------|---------------------|----------------------------|--------------------|----------------------------------|----------------------------|---|
| 1.     | Prof. S. K. BadJena | Ph.D. (KAIST, South Korea) | Asst. Prof. & Head | Mechanical & Physical Metallurgy | 6.5                        | 01  |
| 2.     | Mr. A. L. Kumar     | M. Tech (NIT Durgapur)     | Asst. Prof.        | Physical Metallurgy              | 03                         | NIL   |



|    |                  |                           |             |   |     |     |
|----|------------------|---------------------------|-------------|---|-----|-----|
| 3. | Ms. S. Purohit   | M. Tech (IIT KGP)         | Asst. Prof. | Nano Science & Nano technology            | 02  | NIL |
| 4. | Mr. D. K. Mishra | M. Tech (IIT KGP)         | Asst. Prof. | Process Metallurgy                        | 1.5 | NIL |
| 5. | Mr. G. Behera    | M. Tech (IIT KGP)         | Asst. Prof. | Physical & Process Metallurgy             | 02  | NIL |
| 6. | Ms. R. Kumari    | Ph.D (On going) (IIT KGP) | Asst. Prof. | Surface Engineering & Physical Metallurgy | 01  | NIL |

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

Metallurgy and Materials Engineering department has already arranged some visiting fellows from NIT Rourkela, NALCO, and I.G.I.T Sarang for guest lecturers to improve the knowledge and skill of student. We are in the process of arranging more guest lecturers and workshops from IITs, NITs and other reputed organisations in the coming year.

| Sl No. | Name               | Organisation   |
|--------|--------------------|----------------|
| 1.     | Prof. S.C. Patnaik | I.G.I.T Sarang |
| 2.     | Prof. U.K. Mohanty | N.I.T Rourkela |
| 3.     | Mr. H.B. Routaray  | NALCO, Angul   |

## 13. Percentage of classes taken by temporary faculty – programme-wise information: Nil

## 14. Programme-wise Student Teacher Ratio: 12:1

## 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Supporting staff     | Sanctioned | Filled |
|----------------------|------------|--------|
| Administrative Staff | 00         | 00     |
| Technical/Academics  | 03         | 01     |

## 16. Research thrust areas as recognized by major funding agencies:

The following broad research thrust areas are being recognized by major funding agencies;

- **Process Metallurgy:** Extractive Metallurgy, Flow Sheet Development, Mineral Engineering, Metallurgy, Ferrous & Non Ferrous Metallurgy, Sustainable & Clean Production of Metals, Agglomeration Process, Thermodynamic & Kinetics of Metallurgical Processes, Transport Phenomena, Iron & Steel Making, Alternative Routes of Iron Making, Hydro & Electro Metallurgy.

- **Physical Metallurgy:** Phase Transformation, Heat Treatment, Microstructural Characterisation, Alloy Development, Martensitic Transformation.
- **Mechanical Metallurgy:** Destructive & Non-Destructive Testing, Fracture & Fatigue Analysis, Failure Analysis, Creep Related Problems, Recrystallization & Grain Growth Studies, Welding Technology, Joining of Metals.
- **Surface Engineering:** Thermal Spraying, Laser Treatment, Anodizing, PVD, CVD, Corrosion & Degradation of Materials.
- **Advance Materials:** Bio Materials, Smart Materials, Super Alloys, Light Alloys, Polymer & Composite, Powder Metallurgy. HSLA Steel, TWIP Steel, TRIP Steel, If Steel, Stainless Steel, Nano Materials & Composites.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

The department have applied four numbers research project to the university grant commission (UGC) and final confirmation of the grant is awaited.

**18. Inter-institutional collaborative projects and associated grants received**

The department have national collaboration with IIT Kharagpur, NIT Rourkela, CSIR IIMT Bhubaneswar, NML Jamshedpur, MANIT Bhopal, and DMRL Hyderabad. and international collaboration with Institute National Research Scientific (INRS), Quebec, Canada during 12.09.2014 to formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair MATECSS.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Metallurgy and Materials Engineering department has started in year 2013, so we do not have any funded project. But we have applied some project in UGC and the details are shown in Table as shown below

**TABLE 1: Summary of Project details**

| Sr. No | Research Project  | Name of organization | Status  | Name of the coordinator | Duration of the project |
|--------|---|----------------------|---------|-------------------------|-------------------------|
| 1.     | Influence of inter lamellar spacing on the mechanical properties of rail steels | UGC                  | Applied | Gautam Behera           | 2 Year                  |

|    |  |     |         |                     |        |
|----|--|-----|---------|---------------------|--------|
| 2. | Study of mass effect on microstructural and mechanical properties of AISI 41XXH steel during hardening treatment | UGC | Applied | Avala Lava Kumar    | 2 Year |
| 3. | Synthesis of graphene through chemical route and its applications  | UGC | Applied | Suneeti Purohit     | 2 Year |
| 4. | Boronizing behavior of low carbon and medium carbon steels   | UGC | Applied | Dinesh Kumar Mishra | 2 Year |

**20. Research facility / centre with**

- **State recognition: yes**
- **National recognition: yes**
- **International recognition: yes**

Our University have done collaboration with Institute National Research Scientific (INRS), Quebec, Canada during 12.09.2014 to formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair MATECSS.

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

We are in a process of establishing one laboratory in the department with the sponsorship of NALCO, Angul, Odisha

**22. Publications:**

| Sl. No. | Name              | Publications |               |            |               |
|---------|-------------------|--------------|---------------|------------|---------------|
|         |                   | Journal      |               | Conference |               |
|         |                   | National     | International | National   | International |
| 1.      | Dr. S. K. BadJena | 0            | 5             | 2          | 9             |
| 2.      | A. L. Kumar       | 0            | 2             | 1          | 5             |

**23. Details of patents and income generated: Nil**

**24. Areas of consultancy and income generated:**

In future we are going to do for carry out research for consultancy to generate some revenue for the department.

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:**

The department is newly established, we going to have collaboration with reputed institutions in near future.

**26. . Faculty serving in**

- a) **National committees:** Nil
- b) **International committees:** Nil
- c) **Editorial Boards :**Nil
- d) **any other (please specify):**Nil

**27. Faculty recharging strategies: Seminar, Conferences, workshop and short-term courses; Strategies attended for the session 2010-15;**

| Name.             | Workshop | Conference | Seminar | Short term course |
|-------------------|----------|------------|---------|-------------------|
| Dr. S. K. Badjena | 2        | 10         | 3       | 2                 |
| Mr. A. L. Kumar   | 4        | 12         | 0       | 2                 |
| Ms. S. Purohit    | 1        | 2          | 2       | 1                 |
| Mr. D. K. Mishra  | 0        | 1          | 2       | 2                 |
| Mr. G. Behera     | 1        | 1          | 2       | 0                 |
| Ms. R. Kumari     | 0        | 2          | 0       | 0                 |

**28. Student projects :**

Our UG students are in 2<sup>nd</sup> Year, so they do not have any projects. But in future we are going to do project.

**29. Awards / recognitions received at the national and international level by Faculty for the session 2014-15: 01**

| Name            | Award  | Year |
|-----------------|--|------|
| Ms. Renu Kumari | Best Oral & Poster Presentation in “LAPAMS International Conference” | 2015 |

- Doctoral / post doctoral fellows: Nil
- Students for year 2013-2015:

| Sl. No | Name            | Session | Fest Name/Event Name                       | Prize/Award     |
|--------|-----------------|---------|--|-----------------|
| 1      | Shradha Nayak   | 2013-14 | Samavesh/London Bridge                     | 1 <sup>st</sup> |
|        |                 | 2013-14 | Emouvoir/Story Writing                     | 2 <sup>nd</sup> |
| 2      | Priyanka Brahma | 2013-14 | Samavesh/Brand-IT                          | 2 <sup>nd</sup> |
|        |                 | 2013-14 | Emouvoir/Solo Acting                       | 3 <sup>rd</sup> |
|        |                 | 2013-14 | Emouvoir/Stand-Up Comedy                   | 2 <sup>nd</sup> |
|        |                 | 2013-14 | Bluff Master                               | 2 <sup>nd</sup> |
|        |                 | 2013-14 | Emouvoir/War of Halls                      | 1 <sup>st</sup> |
|        |                 | 2013-14 | Inter College Drama (Sambalpur University) | 1 <sup>st</sup> |
|        |                 | 2013-14 | Phratrix (Hindalco Club)                   | 1 <sup>st</sup> |
|        |                 | 2014-15 | Emouvoir/War of Halls                      | 2 <sup>nd</sup> |

|    |                      |         |   |                 |
|----|----------------------|---------|---|-----------------|
| 3  | Laxmi Priya Sahu     | 2013-14 | Samadhan On spot Photography (VASSAUNT) | 1 <sup>st</sup> |
| 4  | Swadhin Rahul        | 2013-14 | Basket Ball                             | 2 <sup>nd</sup> |
|    |                      | 2014-15 | Basket Ball                             | 2 <sup>nd</sup> |
| 5  | Soumesh Dash         | 2014-15 | Admantium (IGIT, Sarang)                | 1 <sup>st</sup> |
| 6  | Soumya Sourav Behera | 2013-14 | ILUMINA/500m Race                       | 2 <sup>nd</sup> |
| 7  | Sidharth Patra       | 2013-14 | Silicon's Cup/Cricket                   | 1 <sup>st</sup> |
|    |                      | 2013-14 | Inter University Sports Meet            | 1 <sup>st</sup> |
|    |                      | 2014-15 | Srujan/Tech Quiz                        | 3 <sup>rd</sup> |
| 8  | Jagnanath Prasad Bal | 2014-15 | High Jump (VSSUT)                       | 1 <sup>st</sup> |
|    |                      | 2014-15 | Volley Ball (CET)                       | 2 <sup>nd</sup> |
| 9  | Sanjay Jena          | 2013-14 | Green Quizzard                          | 7 <sup>th</sup> |
|    |                      | 2014-15 | IMI Quiz (BBSR)                         | 3 <sup>rd</sup> |
|    |                      | 2014-15 | Quizicus India (BBSR)                   | 4 <sup>th</sup> |
| 10 | Sabyasachi Kanungo   | 2013-14 | Sports Fiesta (NIT RKL)                 | 2 <sup>nd</sup> |
|    |                      | 2013-14 | IUSM Football                           | 1 <sup>st</sup> |
|    |                      | 2014-15 | IMI Quiz (BBSR)                         | 3 <sup>rd</sup> |
| 11 | Bikash Patro         | 2013-14 | Android Robotics/Robosoccer             | 2 <sup>nd</sup> |
| 12 | Arun Kumar Patro     | 2013-14 | Andobotics Manual Robotics              | -               |
|    |                      | 2014-15 | Film Feista/Filmy Quiz                  | 2 <sup>nd</sup> |
| 13 | Debasis Kuanar       | 2013-14 | Emouvoir/Snapfun                        | -               |
|    |                      | 2014-15 | Film Fiesta/Filmy Quiz                  | 2 <sup>nd</sup> |

### 30. Seminars/ Conferences/Workshops organized and the source of funding (national International) for year 2010 to 2015.

Metallurgy & Materials Engineering department is planning to arrange national/international Conferences/Seminars/Workshops.

### 31. Code of ethics for research followed by the departments

The Department follows the code of ethics for research as per the ordinance of the University. We are tried to do some new research that is application based and properly check the manuscript by using plagiarism software before reporting in scientific community. Since our department is started in year 2013, so we have only UG programme and our research is mainly based on undergraduate level. We try to develop some laboratory facilities, i.e. useful to do research.

### 32. Student profile programme-wise:

Co-ordinated by OJEE main

| Name of the Programme<br>(refer to question no. 4) | Applications received | Academic Year | Student in Final year | Enrolled |        | Pass percentage |
|--|-----------------------|---------------|-----------------------|----------|--------|-----------------|
|  |                       |               |                       | Male     | Female |                 |
| B. Tech  | OJEE                  | 2013 – 2014   | Nil                   | 50       | 18     | Nil             |
|  |                       | 2014 – 2015   | Nil                   | 40       | 13     | Nil             |

### 33. Diversity of Students

| Name of the Programme | Year      | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|-----------|--|--|---|------------------------------------|
| B.Tech                | 2013-2014 | 100%                                   | 0%   | 0%  | 0%                                 |
|                       | 2014-2015 | 100%                                   | 0%   | 0%  | 0%                                 |

Being a State Government run University, the students from the state of Odisha are only eligible to undertake the B. Tech programme in the department. Only few students pursue their B.Tech programme in the department from North-East states of the country as Govt. of India Nominee.

### 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

Our UG students are in 2<sup>nd</sup> year. They are not eligible for any competitive examination.

### 35. Student progression

The department has only UG program. We are going to finish our UG program at about 2017. We are planning to start M. Tech (PG) program soon.

### 36. Diversity of staff

| Sl No | Percentage of faculty who are graduates of the | Percentages (%) |
|-------|--|-----------------|
| 1.    | same university                                | <b>00.00</b>    |
| 2.    | from other universities within the State       | <b>67.00</b>    |
| 3.    | universities from other States from            | <b>33.00</b>    |
| 4.    | universities outside the country               | <b>00.00</b>    |

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 0

### 38. Present details of departmental infrastructural facilities with regard to

- Library:** We access books from the central library.
- Internet facilities for staff and students :** Yes
- Total number of class rooms:** Nil
- Class rooms with ICT facility:** Yes

- e) **Students' laboratories** : Nil
- f) **Research laboratories** : Nil

**39. List of doctoral, post-doctoral students and Research Associates**

- (a) **from the host institution/university** : Nil
- (b) **from other institutions/universities**: Nil

**40. Number of post graduate students getting financial assistance from the university :**

Presently the department does not have any M. Tech (PG) programme.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- The departmental committee first evaluate the need and scope of the programme considering the market demand talking with various stakeholders such as alumni, industry personnel etc.
- Discussion & preparation of new course curriculum in the Department by Board of Studies consisting of persons from industries and academia
- University level Workshop is conducted to finalise the proposed course structure of all the department headed by Vice-Chancellor.
- The proposed course structure of the new program is placed for approval by the Academic council.
- Then it is sent to the board of management (BOM) and for final approval from Govt.

**42. Does the department obtain feedback from**

- (a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

**Curriculum:**

- Department holds regularly faculties meeting and discuss the further improvement
- Board of studies meeting hold discusses the syllabus and incorporates the suggestions from the members.

**Teaching-learning-evaluation:**

- Faculties are following innovative teaching methods in the class room.
- Transparency in result evaluation
- Before finalizing the marks, we showed the answer script to students and get their signature.

- (b) **Students on staff, curriculum and teaching-learning-evaluation and how does the Department utilize the feedback?**

- We are conducting informal discussion with the students and take their feedback.
- We are going to the class rooms and discuss with the students and take their feedback.
- The feedbacks are analysed and we take a decision how to improve the teaching learning process.

- After taking the feedback, the faculties are trying to implement to innovative way of teaching through Quiz, Brain Storming, and Seminars etc.
- Incorporate the feedbacks/suggestions from students to further improvement in the curriculum courses/teaching learning programme.
- After taking feedback from the students, we make a balance between the junior & senior faculty members
- We are invited senior members from IIT Bhubaneswar, NIT Rourkela, NALCO Angul, and CSIR-IMMT Bhubaneswar in our departmental Board of Studies (BOS) meeting.
- Feed back is taken from the students through interaction regularly in the class.
- Students are very happy with their result evaluation

**(c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Department has started in year 2013 so we do not have any alumni. Our first batch is going to pass out in year 2017.

**43. List the distinguished alumni of the department (maximum 10) :**

Our department is started in year 2013, so we do not have any passed out students from our department.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) Involving external experts-**

Metallurgy and Materials Engineering department is in the process of arranging some special lectures / workshops / seminar in coming year.

**45. List the teaching methods adopted by the faculty for different programmes.**

The following teaching methods are adopted by the faculty members for different programmes

- **Presentations and lectures**  
A lecture is delivered to a large number of learners by a teacher. A conventional lecture is of 50–55 minutes of uninterrupted discourse from the teacher with no discussion, the only learner activity being listening and note-taking. Lectures will not necessarily include visual aids. Presentations follow a similar pattern but are more likely to happen outside formal education, for example, in the workplace. Presentations might be shorter and would definitely include visual aids - possibly of a high-tech nature.  
Brain Storming
- **Group Discussions**  
Group Discussion is a useful tool to assess the student's personality. It is a technique, an art and a comprehensive tool to judge the worthiness of the student and his appropriateness for the job.
- **Seminars**  
Seminars are forums in which issues are raised and explored, but not necessarily resolved; they require a student to think, to practice the skills of analysis and synthesis, and by doing



so, possibly leave with more and better ideas than the ones with which a student came. They are the pistons which drive the intellectual heart of the college. Seminars are not intended as a mechanism for transmitting information; they serve as a means for groups of students to obtain a set of common experiences, usually based on a text, piece of art, film, etc. Seminars are not the platforms for the transmission of data. Ideally, seminars go beyond the sharing of facts and probe the depths of the subject matter at hand.

- **Web Based learning:**

New technologies make a big difference in education. It describes educational technology that electronically or technologically supports learning and teaching. Web-based training (sometimes called e-learning) is anywhere, any-time instruction delivered over the Internet. These can improve learning and are often more enjoyable and meaningful for the students.

- **Streaming video:**

Streaming video is on-demand delivery of supplemental and primary course materials, specifically video/audio files, via the Internet. For this, high-speed Internet access is required which is available to the students.

- **Tutorial classes:**

Tutorial classes are conducted to address student's questions. The number of tutorial classes for the four years is conducted as per the requirement. However, the tutorial classes are not exclusively specified in the course curriculum.

- **Digitalized lecture notes**

#### **46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- By continuous evaluation through class test, regular viva-voce, semester examinations and laboratory experiments
- The Academic Council of the University has set a bench mark in the feedback form like Excellent, Very Good, Good, Satisfactory and Poor. The University collects the feedback of individual faculty members once in a semester through the office of the Dean, Academic Affairs. The feedback is collected one month before completion of the Semester. After the merging all the related feedback, individual teacher performance analyses for required correction measures. The data collected from the feedback is thoroughly analyzed by the Dean, Academic Affairs and is kept for discussion in the Academic Council of the University. After thorough scrutinisation and discussion, the Academic Council advises the HODs of the concerned Department to take remedial measures for the faculty members who have achieved the benchmark below satisfactory for further improvement. The concerned faculty members are advised to undergo Faculty Development Programme. The University is a Govt. one where no such provision of reward is extended. However, there is a provision for the best teacher award.
- NPTEL courses are circulated among the students for their better understanding of the subjects.
- Industrial tour is provided to the students so that they can be exposed to the new instruments and equipments.
- Faculties are teaching with latest methods including Power Point Presentation.

- The strengths and weaknesses of the course curriculum are regularly improved by holding discussions with the students, faculty members, administrators and alumni
- Different types of course assessment and evaluation methods are followed

| Type of Assessment  | Contribution  |
|---|---|
| Regular practical work, exercises, laboratory work, problems to solve, reflective learning statements, self test. | <ul style="list-style-type: none"> <li>• Keeps students 'on task'</li> <li>• Can encourage application, translation and interpretation of concepts learnt.</li> </ul>   |
| Assignments   | <ul style="list-style-type: none"> <li>• Opportunity to develop an extended argument</li> <li>• Can achieve depth rather than breadth of learning</li> <li>• Opportunity to problem pose and conduct inquiry</li> <li>• Opportunity to explore the boundaries of what is known</li> </ul> |
| Group Work  | <ul style="list-style-type: none"> <li>• Communication of ideas</li> <li>• Encourages independence</li> <li>• Collaboration and co-operation</li> <li>• Opportunity for authentic skill development</li> </ul>  |
| Quiz  | <ul style="list-style-type: none"> <li>• Enhance the knowledge as well as skills of a student.</li> <li>• It is a competition where a student competes to surpass others.</li> </ul>  |
| Sessionals  | <ul style="list-style-type: none"> <li>• Gives feedback to the teacher.</li> </ul>  |
| Mid Semester Exam   | <ul style="list-style-type: none"> <li>• The examination is conducted for a total mark of 20 with time duration of 2 hours.</li> <li>• The concerned class teacher makes the question.</li> </ul>   |
| Final Exams   | <ul style="list-style-type: none"> <li>• Assurance that students have attained the appropriate knowledge, skills and dispositions</li> </ul>  |
| Projects  | <ul style="list-style-type: none"> <li>• Authentic, real world tasks</li> <li>• Capture students' interests</li> </ul>  |
| Attendance  | <ul style="list-style-type: none"> <li>• The attendance of students is monitored continuously and defaulter students are counseled if the attendance is below 75%.</li> <li>• Minimum 65% attendance with medical certificate is required.</li> </ul>                                     |

#### 47. Highlight the participation of students and faculty in extension activities.

The faculty provides ample scope to the students to participate in social service activities through various societies.

- The **Dramatic Society** organises theatrical performances and variety shows like street plays, mono acting, plays etc, which exploit their acting skills and historical talents of the students.

#### Achievements:

1. 1<sup>st</sup> Prize at HINDALCO.

- The **National Service Scheme (NSS)** is aimed at including a sense of national and social responsibility among the students to make them appreciate the dignity of labour for the welfare of rural and weaker sections of the society. In view of imparting a sense of social responsibility and inculcating ethical values, the University has an NSS unit which helps the students for social

interaction. There is a **Sanskar Kendra** formed by the NSS unit. The students of this Kendra regularly interact with the children of the nearby villages for educating them free of cost during leisure time.

**Achievements:**

1. Sanskar Kendra participated in UDGAM, NIT Rourkela – 2014 and bagged 3<sup>rd</sup> position.
- **National Cadet Corps (NCC)** offered for the benefit of the students as it builds their character, leadership, officer like qualities and helps them in selection for defence services. NCC aims at exacting a force of disciplined and trained manpower to help the country in a national emergency.
  - The University has a **Literary Society** and the faculty members of the society organizes various competitions such as essay, debate, quiz, creative writing and topics of burning issues of current affairs with a social interest.
  - There is a **Cultural Association Club** of the University and the assigned faculty members organizes the Annual Cultural Fest in which the students of the University participate in cultural activities exposing their inherent skills and talents in front of large number of spectators.
  - **The Athletic Club** of the University provides a great scope to the students to prove themselves physically and help in imbibing sportsman spirit in them. It promotes athletic activities, conducts sports and athletic tournaments such as inter hostel, inter university, interstate sports and athletic meet etc. The students of the University achieved great success in various competitions organized in the University or outside the university by the support of the faculty members associated with the club. The University offers sports facilities in several disciplines such as Cricket, Volleyball, Basket Ball, Badminton, Football, Hand Ball, Table Tennis and Gym. All the sports activities are properly managed by the Professor Sports-Incharge. The details of the achievements made by the students and the ground facilities provided by the University are given below:

**Achievements:**

1. Participated and bagged 2<sup>nd</sup> position in Basket Ball.
  2. Participated in Silicon Cup (Cricket) and bagged 1<sup>st</sup> position.
  3. Participated in Inter University Meet and bagged 1<sup>st</sup> prize.
  4. Participated in IUSM (Football) and bagged 1<sup>st</sup> position.
  5. Participated in CET Engineering Cup Tour (Volley Ball) and bagged 2<sup>nd</sup> position.
- A **Society of Automotive Engineers (SAE)** collegiate and Robotic Clubs are also functioning in the University. The achievements of the these clubs are given below:

**SAE collegiate Club:** This SAE collegiate club of “Veer Surendra Sai University of Technology” has been participating in various national and international level competitions since last four years and is actively associated with all automobile related advancements. This club has achieved many milestones including successful fabrication of four self-engineered vehicles with special features and filing of number of patents by club members for various innovations in the field of automobile engineering.

### **BAJA SAE INDIA**

It is an international level event organised by **SAE India** held at NATRAX, Indore annually. In this event, the under-graduate students have to form a team, design and fabricate a self-engineered **All-Terrain Vehicle** using college facilities and participate in various static and dynamic events. It aims at inducing and improving industrial & management qualities in students by making them to work as a small fictional manufacturing company of 25 members.

#### **2015:**

1. Participated in Delta Inc organised at NIT, Jamshedpur of BAJA SAE INDIA 2015 and secured All India Rank (AIR) – 12.

### **SUPRA SAE INDIA**

It is a national level competition which presents the under graduate engineering students the task of designing, modelling and fabricating a **FORMULA Type Racing Car**. This event helps the **SAE India student members** to face the challenges involved in different industrial processes.

#### **2014:**

1. Participated in Virtual Simulation Round of **SUPRA SAE India** and bagged **All India Rank (AIR) 11<sup>th</sup>** out of **170** participating student teams from all over the country.
  2. Participated in Virtuals of SUPRA SAEINDIA 2015 and secured **All India Rank (AIR) – 12**
- **Social Service Guild (SSG) Society** organises social awareness activities headed by students of the university in nearby localities as well as in university campus. It also organises plantation in the university.

#### **Achievements:**

1. Blood Donation Camp organised every year in the university.
2. Organise Arise Awake-2014 (exhibition on awareness among students).

#### **48. Give details of “beyond syllabus scholarly activities” of the department.**

- Involvement of students in presenting oral/poster presentation in various conferences
- Involvement of students in participating workshop
- Department have a metallurgical society club that organized various technical programme as well as cultural programme.
- Faculty of the department is active member of cultural society
- Department arranged regularly some seminar
- Involvement of students in preparation of attractive Model

- Students are promoted for industrial summer/winter training programme
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Metallurgy and Materials Engineering Department is started in year 2013 and our first batch is going to pass out in year 2017. So we are not eligible for apply any accreditation.

- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The main focuses of department activities are multi-directional with an emphasis on both research and education. Since our department is started in year 2013 currently, the department is setting up various laboratories involved in undergraduate courses. The current approach of our department is to develop each and every laboratory with multifunctional objectives. In this laboratory, we are aiming to improve/share the knowledge of the different courses with better understanding; at the same time to integrate the research facility with consultancy and liaison with research labs; mandating industry partners and extending entrepreneurship challenges and initiating the interdisciplinary research. The department has introduced e-learning courses/lecture notes for students, to understand the subjects in depth. This department has an idea to create internship programs for students of other universities/colleges by developing the various laboratories. The department actively engaged in doing research in the area of extractive metallurgy, physical metallurgy and some interdisciplinary research like nano-science and technology and biomaterials.

- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- Full academic autonomy in unitary university
- Good quality faculty staffs
- Creamy layer of students
- Brand image due one of the prestigious college of Odisha.
- Surrounded by lot of heavy & medium scale industries
- Quality Equipments
- Active student participation in curricular and extracurricular activities.
- Industrial exposure
- Well stacked library with good number of books and journals.
- Research and development programs.
- TEQIP-II program implemented.

**Weakness:**

- Additional space for expansion of class rooms and laboratories.
- Industry supported laboratories.

- Far away from airport.
- Young department.
- Inadequate supporting staffs.

**Opportunities:**

- Introduction of value added and development programs.
- Collaboration research work with foreign universities for faculty exchange programs.
- Scope to provide good education in cost effective manner.
- Technological development provides enhanced demand for quality technical manpower.
- To increase research activities through M.Tech and PhD.
- Scope for establishment of centers of excellence.
- Balancing administrative and consultancy work
- Infrastructure and Intellectual Capital Building.
- Development of Computational laboratories.
- To promote the concept of digital library.

**Challenges:**

- Upgradation of departmental laboratory to meet the state of art equipment at national and international level.
- Geographical location and attractive opportunities, a threat to attract & retain good faculties, also for prospective employers
- No M.Tech and PhD program pose a serious threat to research output and research project initiatives
- Inculcate ethical values in the mind of students.
- Inadequate infrastructural and technical facilities a threat to future development in curriculum and programme.

**52. Future plans of the department.**

- The department of Metallurgy & Materials Engineering (MME) at VSSUT Burla, established in year 2013, is a unique initiative in the present science and technology education and research scenario of India. This Department is devoted to the design, creation and fundamental understanding of materials that are capable of enhancing the human experience.
- The teaching and research philosophy of the department is to impart the students with the understanding of the interplay between major aspects of materials science, namely composition, structure, processing, characterization and properties and equip them to develop innovative technologies based on sound fundamental principles. The department offers course work covering broad fields of materials science and metallurgical engineering from fundamentals to advanced and emerging areas such as Nanomaterials, Biomaterials, Electron microscopy, Thermo mechanical processing, Thin films and devices, to name a few, which impart strong foundation on several major aspects of materials science and metallurgical engineering and enhance the state of the knowledge of the students.

- The department intends to introduce an M.Tech programme in “Materials Science & Engineering” in the near future with 18 students in mind.
- We are trying to achieve this through a novel design of courses, faculty drawn up from a cross section of academia, industry and also will adopt a different teaching methods including high emphasis on hands on training and experimentation.
- Our department is also going to initiate the “Nano Science and Nano Technology” center to satisfy the needs of society to develop various applications.
- The department of focused on transformative research
- To established of all laboratories, library and computational facilities.
- To conduct regularly seminars/ workshops/conferences in the allied areas for improving of knowledge.
- To increase the research by introducing M.Tech and Ph.D programme
- Apply some project for financial assistant for research
- Try to make some collaboration with foreign university
- Department is trying to carry on consultancy work.

## **EVALUATIVE REPORT OF THE DEPARTMENT**

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

- 1. Name of the department: Architecture**
- 2. Year of Establishment: 2013**
- 3. Is the Department part of a School/Faculty of the university?**

The Department is the part of the University.

- 4. Names of Programmes / Courses offered (UG, PG, Ph.D., and Integrated Masters; Integrated Ph.D., etc.):**

The department has been offering B. Arch in Architecture since its inception. The year of establishment and student strength are as follows;

| Sl. No | Names of Programmes          | Year of Estt. | Student Strength |       |       |       |       |
|--------|------------------------------|---------------|------------------|-------|-------|-------|-------|
|        |                              |               | 2014-15          | 13-14 | 12-13 | 11-12 | 10-11 |
| 1      | UG (B.Arch)-<br>Architecture | 2013          | 43               | 2     | 0     | 0     | 0     |

- 5. Names of Interdisciplinary courses and the departments/units involved: NIL**

The department will be offering interdisciplinary courses for the students of other departments of the University in future.

- 6. Courses in collaboration with other universities, industries, foreign institutions etc.-**

The department will conduct various courses for faculties to enrich their teaching-learning capabilities under faculty development programme. Further, the department will also carry out various courses for the students to enhance their learning potential under different programmes like students training, internship, workshops, conferences, industrial visit etc. The MoUs to undertake specialized courses and research in collaboration with other Universities, Industries are in progress and collaboration with foreign universities to be finalized in future.

- 7. Details of programmes discontinued, if any, with reasons:**

No programme has been discontinued by the department so far.

- 8. Examination System: Annual/ semester/choice based credit system (programme wise):**

The department has implemented Semester based CGPA credit system for UG and PG programme. The details of credit in each semester for both the programme are furnished bellows;



| <b>UG (B.Arch)</b> |               |
|--------------------|---------------|
| <b>Semester</b>    | <b>Credit</b> |
| 1 <sup>st</sup>    | 30            |
| 2 <sup>nd</sup>    | 30            |
| 3 <sup>rd</sup>    | 30            |
| 4 <sup>th</sup>    | 30            |
| 5 <sup>th</sup>    | 30            |
| 6 <sup>th</sup>    | 30            |
| 7 <sup>th</sup>    | 30            |
| 8 <sup>th</sup>    | 30            |
| 9 <sup>th</sup>    | 30            |
| 10 <sup>th</sup>   | 30            |

However, the academic council is already approved choice based credit system which will be implemented from academic session 2015-16.

#### **9. Participation of the department in the courses offered by other departments:**

The students of the Department undertake the following courses offered by other departments of the University in first and second semesters.

| <b>Sl No</b> | <b>Course</b>         | <b>Semester</b> | <b>Name of the Department</b> |
|--------------|-----------------------|-----------------|-------------------------------|
| 1            | Mathematics-I         | 1st             | Mathematics                   |
| 2            | Engineering Mechanics | 2 <sup>nd</sup> | ME                            |
| 3            | Mathematics-II        | 2 <sup>nd</sup> | Mathematics                   |

#### **10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

The sanctioned faculty strength of the department is NIL. At present the department has 4 faculties out of which 3 faculties are in contractual basis.

#### **11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

The department has at present 4 faculties; out of which 1 faculty is having a PhD and rest are having M.Arch and B.Arch qualification.

| <b>Name</b>  | <b>Qualification</b>                | <b>Designation</b>    | <b>Specialization</b> | <b>No. of Years of Experience</b> | <b>No. of Ph.D. Students Guided/ Guiding</b> |
|--------------|-------------------------------------|-----------------------|-----------------------|-----------------------------------|--|
| Dr A K Nayak | PhD (University of Southampton, UK) | Asst Professor & Head | Structural Engg       | 14                                | 02   |

|                        |   |                               |               |     |     |
|------------------------|---|-------------------------------|---------------|-----|-----|
| Ms Sagarika Nayak      | MCP (IIT Kharagpur), BArch (NIT Hamirpur)                 | Asst Professor (Limited Term) | City Planning | 1/2 | NIL |
| Ms Mitali Madhusmita** | BArch (Piloo Mody College of Architecture, ABIT, Cuttack) | Asst Professor (Limited Term) | -             | 1/2 | NIL |
| Mr Jogesh Chhatra      | BArch (CET, BBSR)   | Asst Professor (Limited Term) |               | 1/2 | NIL |

\*\*About to be awarded MArch (CET, BBSR)

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors.**

The department will arrange the meeting regularly by inviting senior visiting professors to have an interaction with faculties and students. They will be invited in workshops/FDPs/conferences conducted by the department.

**13. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: 70 %**

**14. Student -Teacher Ratio (programme wise): UG - 10:1**

**15. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

| Supporting staff     | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical staff      | NIL        | NIL    |
| Administrative staff | NIL        | NIL    |

**16. Research thrust areas as recognized by major funding agencies**

The faculties and students of the Department will conduct major research in the upcoming laboratories of the department. The research thrust areas will be as follows:

- Town Planning
- Urban and Rural Planning

The department will generate revenues from the above research areas.

**17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

NIL

**18. Inter-institutional collaborative projects and associated grants received:**

a) National collaboration:

The department will be involved in conducting collaborative projects with IITs and NITs.

b) International collaboration:

The Department will be also trying to initiate collaborative projects with global organization.

**19. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL**

**20. Research Centre /facility with:**

The department will try to engage with state, national and international funding agencies to carry out research and consultancy works.

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

The department will be preparing MoUs, which shall be signed with industries for development of new laboratories.

**22. Publications:**

The faculties has published .....nos of papers in the journals and .....nos in conferences. The detail no of publication of each faculty is furnished below;

a) Publication per faculty-

| Name of the faculty | Publication |               |            |               |
|---------------------|-------------|---------------|------------|---------------|
|                     | Journal     |               | Conference |               |
|                     | National    | International | National   | International |
| Dr AK Nayak         | 1           | 9             | 3          | 17            |

- Number of papers published in peer reviewed journals (national / international)
- Monographs: NIL
- Chapter in Books: 02
- Books Edited: 01
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Books with ISBN/ISSN numbers with details of publishers: NIL
- Citation Index – range / average : YES
- SNIP : NIL
- SJR : NIL

- Impact Factor – range / average: Yes
- h-index : NIL

**23. Details of patents and income generated:**

Department faculties are involved in research work with Institutes like University of Southampton, UK. Due process will be followed to submit the works for patents.

**24. Areas of consultancy and income generated:**

The department is yet to generate major revenues

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad:**

Department faculties are yet to visit both national / International laboratories / institutions Faculty serving in:

- National committees:
- International committees
- Editorial Boards
- Any other (please specify) :

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). NIL**

**28. Student projects**

- Percentage of students who have done in-house projects including inter departmental/programme: NIL
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NIL

**29. Awards / recognitions received at the national and international level by**

- Faculty: 01
- Research fellow: 00
- Students: 00

**30 Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any. The department will conduct Seminars/ Conferences/Workshops.**

**31. Code of ethics for research followed by the departments: Highest ethics**

**32. Student profile programme/course wise:**

The students who undertake the B. Arch programme in the department are being selected from OJEE ranks conducted by OJEE.

| Name of the Course/programme UG | Applications received | Selected | Enrolled |    | Pass percentage |
|---------------------------------|-----------------------|----------|----------|----|-----------------|
|                                 |                       |          | *M       | *F |                 |
| B.Arch (2014-15)                | OJEE                  | 43       | 20       | 23 | --              |
| B.Arch (2013-14)                | OJEE                  | 2        | 0        | 2  | 100             |

\*M = Male \*F = Female

**33. Diversity of Students**

Being a State Government run University, the students from the state of Odisha are only eligible to undertake the B.Arch programme in the department.

| Name of the Course UG | % of students from the same University | % of students from other Universities within State | % of students from other Universities outside State | % of students from abroad |
|-----------------------|--|--|---|---------------------------|
| 2014-15               | NIL                                    | 100  | NIL   | NIL                       |
| 2013-14               | NIL                                    | 100  | NIL   | NIL                       |

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

The first batch of B.Arch is yet to graduate.

**35. Student progression**

| Student progression    | Against % enrolled |
|------------------------|--------------------|
| UG to PG               | NIL                |
| PG to M.Phil.          | NIL                |
| PG to Ph.D.            | NIL                |
| Ph.D. to Post-Doctoral | NIL                |

|                                  |     |
|----------------------------------|-----|
| <b>Employed</b>                  |     |
| Campus selection                 |     |
| Other than campus recruitment    |     |
| Entrepreneurship/Self-employment | NIL |

**36. Diversity of staff**

|  |     |
|--|-----|
| <b>Percentage of faculty who are graduates</b> |     |
| of the same university                         | NIL |
| from other universities within the State       | 100 |
| from universities from other States            | NIL |
| from universities outside the country          | NIL |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL**

**38. Present details of departmental infrastructure facilities with regard to**

- a) **Library:** NIL
- b) **Internet facilities for staff and students:** YES
- c) **Total number of class rooms :** 2
- d) **Class rooms with ICT facility:** NIL
- e) **Students' & Research laboratories:** NIL

**39. List of doctoral, post-doctoral students and Research Associates**

- a) **from the host institution/university** NIL
- b) **From other institutions/universities** NIL

**40. Number of post graduate students getting financial assistance from the university.**  
NIL

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

- The department conducts regular faculty meeting for development of new programme
- The department is going to propose a new MArch Programme in city planning for approval before the Academic Council, the highest decision making body in the University

**42. Does the department obtain feedback from**

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- The faculties in the department are assessed by stakeholders on the teaching learning processes.
  - The outcome of the feedback is analyzed and suggested methods are followed to enhance the teaching learning process.
- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
- The feedback from students are taken seriously to take care of student needs,
- c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**
- The Department conducts regular meeting consisting of the stakeholders like staff, students and parents and look into these matters. Alumni and employers are yet to come.
  - List the distinguished alumni of the department (maximum 10) NIL
- 43. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. NIL**
- 44. List the teaching methods adopted by the faculty for different programmes.**
- The faculties in the department adopted various means such as Blackboard, Power-Point Presentation through LCD to teach the students. Industrial visits are also arranged for better learning.
  - The students are provided with class notes to perform better in examinations.
- 45. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The following are the lists of Program Objectives

- An ability to apply knowledge of engineering and architecture
- An ability to design and conduct experiments as well as to analyze and interpret data
- An ability to design a system, component, or process to meet desired needs
- An ability to function on multi-disciplinary teams
- An ability to identify, formulate and solve architectural problems
- An understanding of professional and ethical responsibility
- An ability to communicate effectively

- The broad education necessary to understand the impact of architectural solutions in a global and societal context
- A recognition of the need for, and an ability to engage in life-long learning
- A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern design tools necessary for architecture practice

The Course Outcomes are designed to carry out the Programme objectives through knowledge, skill and abilities of the students. The learning outcomes are monitored by getting the feedback from stakeholders like students, parents etc.

**46. Highlight the participation of students and faculty in extension activities.**

| Activity       | 2010-11 | 2011-12 | 2012-13 | 2013-14    |
|----------------|---------|---------|---------|------------|
| Blood donation | NA      | NA      | NA      | NIL        |
| Sports         | NA      | NA      | NA      | 01 faculty |
| NCC            | NA      | NA      | NA      | 01 faculty |

**48. Give details of “beyond syllabus scholarly activities” of the department. :**

- Professional societies such as “Architecture Society” is recently established and will organize National/international level architectural symposium, guest lectures, architectural events such as model contest, poster presentation, design contest etc.
- The students are encouraged to participate in various regional level and national level design events organized by other Institutions/universities such as Indian Institute of Architects.
- Students also participate in cultural fest and literary fest every year.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NIL**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Dr. A. K. Nayak along with Dr CR Mohanty of Civil Engineering Department designed a water treatment system for the Sambalpur area

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**



**Strength:**

- Being a new department in the history of this glorious university
- Highly qualified, experienced, dedicated and hardworking faculty
- Faculty with MArch and Ph.D. qualifications (25%).
- Team work
- Collaboration

**Weakness:**

- Inadequate space for expansion of classrooms and laboratories.
- Non-availability of national/international facilities.
- Inadequate faculty
- Inadequate Funding
- Inadequate Overall Space

**Opportunities:**

- Collaboration with industry for joint research and consultancy.
- To start a specialized PG. programme and research in City Planning
- To Motivate the students to go for higher studies
- To Conduct Workshops/short term courses/Conferences
- To Attract MArch Students for PhD

**Challenges:**

- To establish the Department as World Class Center of Excellence
- To be a leading department in architecture in the country
- To Generate the revenue for the university
- To Have State-of-Art labs
- To meet the expectations of stakeholders

**52. Future plans of the department.**

- Department hopes to start a New Master Programme in City Planning
- Department will organize short term courses for improvement in teaching-learning process
- Department will conduct national/international conferences for sharing the architectural knowhow.
- Department hopes to have sufficient Laboratory facilities to become a center of excellence
- Department hopes to generate funding from research and consultancy activities.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Chemistry
2. **Year of Establishment:** 1956
3. **Is the Department part of a School/Faculty of the university?** Yes
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**

Following programmes are offered by our department:

| Sl. No. | Names of Programmes               | Year of Establishment | Strength of the Students |       |       |       |       |
|---------|-----------------------------------|-----------------------|--------------------------|-------|-------|-------|-------|
|         |                                   |                       | 14-15                    | 13-14 | 12-13 | 11-12 | 10-11 |
| 1       | PG (Int. M.Sc. (Chemistry))       | 2013                  | 08                       | 17    | -     | -     | -     |
| 2       | PG (M.Sc. (Industrial Chemistry)) | 2010                  | 16                       | 17    | 03    | 00    | 07    |
| 3       | PG (M.Phil.)                      | 2014                  | 03                       | -     | -     | -     | -     |
| 4       | Ph.D.                             | 2013                  | 05                       | 04    | 04    | 03    | 01    |

### 5. Interdisciplinary programmes and departments involved:

Other departments are involved in the course offered by our department

| Sl. No. | Interdisciplinary Programmes | Courses  | Semester  | Name of the Department           |
|---------|------------------------------|--|---|----------------------------------|
| 1       | Int. M.Sc.                   | Physics-I, II, III and IV                        | 1 <sup>st</sup>   | Physics                          |
|         |                              | Mathematics- I, II, III and IV                   | 1 <sup>st</sup>   | Mathematics                      |
|         |                              | English-I, Economics, and Organization Behaviour | 1 <sup>st</sup> , 3 <sup>rd</sup> , and 4 <sup>th</sup> | Humanities                       |
|         |                              | Computer Science                                 | 2 <sup>nd</sup>   | Computer Science and Engineering |

### 6. Courses in collaboration with other universities, industries, foreign institutions, etc.:

- The department organizes seminars/conference time to time to enrich the faculty and students in the various aspects of recent developments in science and technology.
- The department is in joint collaboration with other state and national universities for research and developments of new thrust areas.
- The department also interacting with various industries for collaborative research work that will benefit our faculty and students.
- We are in the process of collaboration with foreign universities.

### 7. Details of programmes discontinued, if any, with reasons: No

### 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:

The department has adopted **Semester System** for PG programmes along with elective courses offered in 3<sup>rd</sup> and 4<sup>th</sup> semester for M.Sc. and in 9<sup>th</sup> and 10<sup>th</sup> semester for Int. M.Sc. programmes. The details of credit in each semester for both the programmes are as below:

| Programmes       |        |                 |        |                 |        |
|------------------|--------|-----------------|--------|-----------------|--------|
| PG (Int. M.Sc.)  |        | PG (M.Sc.)      |        | PG (M.Phil.)    |        |
| Semester         | Credit | Semester        | Credit | Semester        | Credit |
| 1 <sup>st</sup>  | 28     | 1 <sup>st</sup> | 24     | 1 <sup>st</sup> | 20     |
| 2 <sup>nd</sup>  | 28     | 2 <sup>nd</sup> | 24     | 2 <sup>nd</sup> | 20     |
| 3 <sup>rd</sup>  | 28     | 3 <sup>rd</sup> | 24     |                 |        |
| 4 <sup>th</sup>  | 28     | 4 <sup>th</sup> | 24     |                 |        |
| 5 <sup>th</sup>  | 24     |                 |        |                 |        |
| 6 <sup>th</sup>  | 24     |                 |        |                 |        |
| 7 <sup>th</sup>  | 24     |                 |        |                 |        |
| 8 <sup>th</sup>  | 24     |                 |        |                 |        |
| 9 <sup>th</sup>  | 24     |                 |        |                 |        |
| 10 <sup>th</sup> | 24     |                 |        |                 |        |

\*The Academic Council of the University has already approved **Choice Based Credit System**, which will be implemented from next academic session 2015-16.

### 9. Participation of the department in the courses offered by other departments:

The faculties of the department are involved in the following courses provide by the other departments:

| Sl. No. | Programme  | Course                                     | Semester                            | Name of the Department   |
|---------|------------|--|-------------------------------------|--------------------------|
| 1       | B.Tech.    | Chemistry-I                                | 1 <sup>st</sup> and 2 <sup>nd</sup> | All Engineering Branches |
| 2       | Int. M.Sc. | Chemistry-I (General)                      | 1 <sup>st</sup>                     | Physics                  |
|         |            | Chemistry-II (Basic Inorganic-I)           | 2 <sup>nd</sup>                     |                          |
|         |            | Chemistry-III (Basic Physical-I)           | 3 <sup>rd</sup>                     |                          |
|         |            | Environmental Science                      | 3 <sup>rd</sup>                     |                          |
|         |            | Chemistry-IV (Basic Organic-I)             | 4 <sup>th</sup>                     |                          |
|         |            | Chemistry-V (Basic Inorganic Chemistry-II) | 4 <sup>th</sup>                     |                          |
| 3       | M.Tech.    | Environmental Engineering                  | 5 <sup>th</sup>                     | Civil Engineering        |

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/ Assistant Professors/others)

The sanctioned teaching posts for our department is 21 and 11 posts are filled:

| Teaching Post        | Sanctioned | Filled | Actual (including CAS & MPS) |
|----------------------|------------|--------|------------------------------|
| Professor            | 04         | 03     | Nil                          |
| Associate Professors | 06         | Nil    | Nil                          |
| Assistant Professors | 11         | 08     | Nil                          |
| Others               | Nil        | Nil    | Nil                          |

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

| Name of Faculty          | Qualification  | Designation                  | Specialization   | Experience | PhD Guided in the Last 4 Years |
|--------------------------|--|------------------------------|--|------------|--------------------------------|
| Dr. Sarat Kumar Swain    | M.Sc., M.Phil., Ph.D. (Utkal University), Post-doc (USA)         | Professor                    | Materials Science, Organic Chemistry, Nanotechnology       | 20 Year    | Completed: 07<br>On Going: 08  |
| Dr. Pravin Kumar Kar     | M.Sc., M.Phil., Ph.D. (Delhi University)                         | Professor                    | Industrial Chemistry                                       | 21 Year    | Completed: 02<br>On Going: 05  |
| Dr. RahasBihari Panda    | M.Sc., M.Phil., Ph.D. (Sambalpur University)                     | Professor and Head           | Environmental Chemistry / Organic Chemistry / Biochemistry | 28 Year    | Completed: 07<br>On Going: 05  |
| Dr. Sukalyan Dash        | M.Sc., M.Phil., Ph.D. (Sambalpur University)                     | Assistant Professor / Reader | Organic Chemistry, Physical Chemistry                      | 20 Year    | Completed: 02<br>On Going: 03  |
| Dr. TrinathBiswal        | M.Sc., M.Phil., Ph.D. (Utkal University)                         | Assistant Professor / Reader | Industrial Chemistry                                       | 13 Year    | Completed: 00<br>On Going: 01  |
| Dr. PriyaranjanMohapatra | M.Sc., M.Phil., Ph.D. (Utkal University), Post-doc (South Korea) | Assistant Professor / Reader | Industrial Chemistry                                       | 15 Year    | Completed: 00<br>On Going: 03  |
| Dr. Achyut Kumar Panda   | M.Sc., M.Phil., Ph.D. (NIT Rourkela)                             | Assistant Professor / Reader | Organic Chemistry  | 15 Year    | Completed: 00<br>On Going: 04  |
| Dr. Ramakrishna D. S.    | M.Sc., Ph.D. (ICT, Hyderabad)                                    | Assistant Professor          | Organic Chemistry  | 2 Year     | Completed: 00<br>On Going: 00  |
| Dr.                      | M.Sc., Ph.D. (IIT  | Assistant                    | Physical   | 01 Year    | Completed:                     |

|                        |   |                     |  |         |                               |
|------------------------|---|---------------------|--|---------|-------------------------------|
| Monalisa Mohapatra     | Madras), Post-Doc ((IIT Madras)                               | Professor           | Chemistry                              |         | 00<br>On Going: 00            |
| Dr. Aruna Kumar Barick | M.Sc., M.Tech., Ph.D. (IIT Kharagpur), Post-doc (South Korea) | Assistant Professor | Materials Science, Organic Chemistry   | 02 Year | Completed: 00<br>On Going: 00 |
| Dr. Biswanath Ghosh    | M.Sc., Ph.D. (JLU Giessen, Germany), Post-doc (Finland)       | Assistant Professor | Materials Science, Inorganic Chemistry | 01 Year | Completed: 00<br>On Going: 00 |

## 12. List of Senior Visiting Fellows, Adjunct Faculties, Emeritus Professors:

The department invites following visiting professors in regular intervals for conducting meetings, examinations, guest lecturers, seminars, conferences, workshops, etc. and obtained their valuable feedbacks for improvement of academic curricular activities.

| Sl. No. | Name                      | Area of Expertise                | Organization/Institution/University |
|---------|---------------------------|----------------------------------|-------------------------------------|
| 1       | Prof. D.K. Dash           | Inorganic Chemistry              | Sambalpur University                |
| 2       | Prof. B. Behera           | Physical Chemistry               | Sambalpur University                |
| 3       | Dr. P. K. Behera          | Physical Chemistry               | Sambalpur University                |
| 4       | Prof. B. K. Mishra        | Physio-organic Chemistry         | Sambalpur University                |
| 5       | Prof. (Mrs.) P. K. Mishra | Surface Chemistry                | Sambalpur University                |
| 6       | Prof. G. B. Behera        | Physical Chemistry               | Sambalpur University                |
| 7       | Prof. P. Paramanik        | Nanomaterials                    | IIT Kharagpur                       |
| 8       | Prof. A. K. Mishra        | Photo Chemistry                  | IIT Madras                          |
| 9       | Prof. S. Anandan          | Nanomaterials                    | NIT Trichy                          |
| 10      | Dr. M. K. Naskar          | Sol-Gel Chemistry                | CSIR-CGCRI, Kolkata                 |
| 11      | Prof. P. K. Sahoo         | Polymer Chemistry                | Utkal University                    |
| 12      | Prof. P. C. Gope          | Mechanical Engineering           | GBPUAT, Uttarakhand                 |
| 13      | Dr. S. K. Meher           | Physical Chemistry               | NIT Jaipur                          |
| 14      | Prof. S. Ghosh            | Organic Chemistry                | IACS, Kolkata                       |
| 15      | Prof. D. Shindhe          | Chemical Technology              | DBAM University, Maharashtra        |
| 16      | Prof. N. R. Jana          | Nanomaterials                    | IACS, Kolkata                       |
| 17      | Prof. (Mrs.) M. Sarkar    | Analytical Chemistry             | University of Kalyani, West Bengal  |
| 18      | Prof K. M. Parida         | Colloids and Materials Chemistry | CSIR-IMMT, Bhubaneswar              |
| 19      | Dr. S. K. Badamali        | Physical Chemistry               | Utkal University                    |
| 20      | Prof. T. Pal              | Materials Science                | IIT Kharagpur                       |
| 21      | Prof. C. S. Panda         | Organic Chemistry                | Berhampur University                |
| 22      | Prof. N. Pradhan          | Nanomaterials                    | IACS, Kolkata                       |
| 23      | Prof. A. C. Dash          | Physical Chemistry               | Utkal University                    |
| 24      | Prof. G. N. Rao           | Nano-Bio Chemistry               | Andhra University                   |
| 25      | Prof. G. Jagannatham      | Material Chemistry               | Osmania University                  |

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

**B.Tech.:** Nil

**Int. M.Sc.:** 1/6 Classes (15%)

**M.Sc.:** Nil

**M.Phil.:** Nil

**Ph.D.:** Nil

**14. Programme-wise Student Teacher Ratio:**

**B.Tech. (Chemistry-I):** 60:01

**Int. M.Sc.: 18:03 (2<sup>nd</sup> Semester): 18:04 (4<sup>th</sup> Semester)**

**M.Sc.:18:05 (2<sup>nd</sup> Semester): 18:03 (4<sup>th</sup> Semester)**

**M.Phil: 03:04 (2<sup>nd</sup> Semester)**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

| <b>Supporting Staff</b> | <b>Sanctioned</b> | <b>Filled</b>    |
|-------------------------|-------------------|------------------|
| Technical Staff         | 01                | 01 (Out Sourced) |
| Administrative Staff    | 00                | 01               |
| Peon                    | 02                | 02               |

**16. Research thrust areas as recognized by major funding agencies:**

The faculties of the department conduct major research in the laboratories of the department. The research thrust areas recognized by funding agencies are as follows:

- Materials Sciences
- Environmental Assessment and Management
- Polymer Science
- Industrial Chemistry
- Environmental Chemistry
- Physical-Organic Chemistry
- Nanomaterials
- Catalysis

**17. Name of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

| Sl. No. | Year-wise | Number | Principal Investigator | Name of Project  | Name of funding agency / industry            | Total grant received |
|---------|-----------|--------|------------------------|--|--|----------------------|
| 1       | 2014-2017 | 1      | Prof. S. K. Swain      | Acoustical Investigation of Some Pharmaceutical Proteins | Department of Biotechnology, Govt. of Odisha | 9.66 Lakh            |

### 18. Inter-institutional collaborative projects and associated grants received

#### a) National collaboration:

Industrial consultancy collaborative project work with Aditya Aluminium (HINDALCO) is continuing presently and association with other institutions are under progress.

#### b) International collaboration:

Our university has collaborated with Institute National Research Scientific (INRS), Quebec, Canada for the cooperation in the development of research and training. Our University is in the process of signing MOU's with foreign institutions/universities.

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

The department has already received more than 50 lakh grant from various funding agencies.

| Sl. No. | Year-wise | Department and Principal Investigator | Name of Project  | Name of funding agency / industry            | Total grant received |
|---------|-----------|---------------------------------------|--|--|----------------------|
| 1       | 2014-17   | Prof. S. K. Swain                     | Acoustical Investigation of Some Pharmaceutical Proteins                                       | Department of Biotechnology, Govt. of Odisha | 9.66 Lakh            |
| 2       | 2014-19   | Dr. Ramakrishna D. S.                 | Total Synthesis of Biologically Active Carbazole Alkaloids: Glybomines A-C and their analogues | UGC-FRP Scheme, Govt. of India               | 6.00 Lakh            |
| 3       | 2007-09   | Dr. S. Dash                           | Synthesis, Characterization, and Photochemical studies some Novel Polymethine Cyanine Dyes     | AICTE, Govt. of India                        | 7.50 Lakh            |

### 20. Research facility/centre with



- **State Recognition:**

The Govt. of Odisha has recognized the department for the higher study and research. The faculty and students of other state universities are involved in mutual research and developments with our department.

- **National Recognition:**

Various project funding agencies has sanctioned project to the department. The department has already applied for UGC-SAP project. Faculty members are invited to collaborate and deliver talk in different national and international forum; students are selected by DST inspired, INSA and other reputed organization to carry out their research.

- **International Recognition:**

Our University is in the process of signing MOUs with foreign institutions/universities. Faculties are members of editorial board of different international journals and regular reviewers of reputed journals.

## 21. Special research laboratories sponsored by / created by industry or corporate bodies:

Our department has applied to various funding agencies such as DTS-FIST, UGC-SAP, and AICTE for the development of our laboratories. The corporate sectors of state and national importance are keenly interested to establish research and development laboratories, which will act as a nodal centre for various research activities for the industrial development.

## 22. Publications:

The faculties has published total 245 nosof papers in journals, 09 nos of book chapters and 10 books with ISBN and three overseas patents. The details no of publications of each faculty are given below:

| Name of the Faculty   | Peer Reviewed Research Paper |                  | Book Chapter | Books with ISBN |
|-----------------------|------------------------------|------------------|--------------|-----------------|
|                       | International Journal        | National Journal |              |                 |
| Prof. S. K. Swain     | 63                           | 12               | 05           | 01              |
| Prof. P. K.Kar        | 10                           | 10               | 00           | 03              |
| Prof. R. B. Panda     | 39                           | 12               | 01           | 00              |
| Dr. S. Dash           | 23                           | 07               | 00           | 03              |
| Dr. T.Biswal          | 07                           | 01               | 00           | 03              |
| Dr. P.Mohapatra       | 08                           | 01               | 00           | 01              |
| Dr. A. K. Panda       | 15                           | 01               | 00           | 01              |
| Dr. Ramakrishna D. S. | 03                           | 00               | 00           | 00              |
| Dr. M.Mohapatra       | 10                           | 02               | 01           | 00              |
| Dr. A. K Barick       | 12                           | 00               | 02           | 00              |
| Dr. B. N. Ghosh       | 10                           | 00               | 00           | 00              |

The citation index of the peer reviewed research papers and range / average Impact Factor of Peer

Reviewed Research Paper along with h-index are mentioned below:

| Name of Faculty       | Citation Index of Peer Reviewed Research Paper | Impact Factor of Peer Reviewed Research Paper |                   | h-index |
|-----------------------|--|---|-------------------|---------|
|                       |  | International Journal                         | National Journal  |         |
| Prof. S. K. Swain     | More than 500                                  | 0.4 – 4.2                                     | 0.5 – 2.0         | 13      |
| Prof. P. K.Kar        | More than 100                                  | 0.5 – 2.0                                     | 0.5 – 2.0         | -       |
| Prof. R. B. Panda     | More than 300                                  | 0.75 – 5.5                                    | 0.75 – 1.5        | -       |
| Dr. S. Dash           | More than 700                                  | 0.7 – 8.0                                     | 0.5 – 2.0         | 12      |
| Dr. T.Biswal          | 26   | 0.8 – 1.4                                     | -                 | -       |
| Dr. P.Mohapatra       | More than 50                                   | 0.3 – 6.5                                     | SJIF 2012 = 3.727 | 02      |
| Dr. A. K. Panda       | 292  | 0.3 – 5.5                                     | -                 | 05      |
| Dr. Ramakrishna D. S. | 18   | 2.3 – 6.7                                     | -                 | 03      |
| Dr. M.Mohapatra       | More than 100                                  | 2.9 – 4.4                                     | 0.0               | 05      |
| Dr. A. K. Barick      | 206  | 1.090 – 3.012;<br>1.9857                      | -                 | 07      |
| Dr. B. N. Ghosh       | More than 50                                   | 1.251-11.444/<br>3.9459                       | -                 | 03      |

### 23. Details of patents and income generated:

| Sl. No. | Title of Project   | Name of Faculty   | Patent No.   |
|---------|--|-------------------|--|
| 1       | Process Preparing Polymer Nanocomposites and Nanocomposites Prepared Therefrom   | Prof. S. K. Swain | US 2010/0152325 A1 (2010), USA   |
| 2       | Quantum dots containing poly(2-vinyl pyridine)- <i>b</i> -poly( <i>n</i> -hexyl isocyanate) block copolymer and process for preparing them | Dr. P. Mohapatra  | Korean Patent No-3-1998-099381-5 ( Dated 22 <sup>nd</sup> August, 2005), South Korea |
| 3       | Catalytic Conversion of Waste Polypropylene to Liquid Fuel   | Dr. A. K. Panda   | 674/KOL/2011 (2011), India   |

### 24. Areas of consultancy and income generated:

| Sl. No. | Areas of Consultancy  | Name of Faculty         | Income generated   |
|---------|---|-------------------------|--------------------|
| 1       | Consultancy in Water Treatment at Sukinda Chromite Valley in Odisha | Prof. R. B. Panda       | 6.5 lakh per Annum |
| 2       | Consultancy in Water Testing of HINDALCO Ltd.                       | Department of Chemistry | 72,000/- per Annum |

### 25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad:

**Prof. R. B. Panda:**

Visited Defense College and High Energy Materials Research Laboratory (HEMRL) (Defence Research and Development Organisation (DRDO) Laboratory), Pune

**Prof. S. K. Swain:**

Resource person in Refresher Courses conducted by Utkal University (10 nos) and Sambalpur University (08 nos)

Invited Speaker to deliver lecturer at different national / international conferences/seminars

**Dr. P. K. Kar:**

Resource person in Refresher Courses conducted by Sambalpur University (05nos)

**Dr. S. Dash:**

Resource person in Refresher Courses conducted by Sambalpur University (04nos)

**26. Faculty serving in**

**a) National committees**

**Prof. R. B. Panda:**

- Member of State Pollution Control Board, Centre for Environmental Studies, Govt. of Odisha
- Member in International Association for Water Pollution, National Environmental Engineering Research Institute (NEERI), Govt. of India
- Member in the Environmental Consultancy Cell of Federation of Indian Chambers of Commerce and Industry (FICCI) and Federation of Indian Mineral Industries (FIMI), Govt. of India

**b) International committees**

- Our senior faculties has been placed as member of international Advisory Committees of various international conferences/seminars

**c) Editorial Boards**

**Prof. R. B. Panda:**

- Member of Editorial Board of “Pollution Research” International Journal

**Dr. S. Dash:**

- Reviewer for Journal of Royal society of chemistry, American Chemical Society

and Elsevier

**Dr. A. K. Panda:**

- Review Board Member of “International Journal of Engineering Research and Technology (IJERT)”
- Editorial Board Member of “Advanced Energy: An International Journal (AEIJ)”
- Handling Editor of “International Journal of Environment and Waste Management (IJEWM)” and “International Journal of Environmental Engineering (IJEE)”

**d) any other (please specify)**

- Our senior faculties has been placed as member of regional/national Advisory Committees of various conferences/seminars.
- Our faculties are serving as reviewer for national and international journals.
- Our faculties are invited as Invited Speaker to deliver lecturer at national/international conferences/seminars.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

The faculties of the department have attended following recharging programs during last 5 years.

| Name of Faculty       | Workshop | Short Term Course | Refresher Courses | Summer Schools | FDP |
|-----------------------|----------|-------------------|-------------------|----------------|-----|
| Prof. S. K. Swain     | -        | 02                | -                 | 02             | -   |
| Prof. P. K. Kar       | -        | -                 | -                 | -              | -   |
| Prof. R. B. Panda     | 05       | -                 | -                 | -              | -   |
| Dr. S. Dash           | -        | -                 | 01                | -              | -   |
| Dr. T. Biswal         | 02       | -                 | -                 | -              | -   |
| Dr. P. Mohapatra      | -        | 01                | -                 | -              | 06  |
| Dr. A. K. Panda       | 04       | 02                | -                 | -              | -   |
| Dr. Ramakrishna D. S. | -        | -                 | 01                | 01             | -   |
| Dr. M. Mohapatra      | -        | -                 | -                 | -              | -   |
| Dr. A. K. Barick      | -        | -                 | -                 | -              | -   |
| Dr. B. N. Ghosh       | -        | -                 | -                 | -              | -   |

**28. Student projects**

- Percentage of students who have done in-house projects including inter-departmental projects: **M.Sc. (4<sup>th</sup> Semester): 100%**
- Percentage of students doing projects in collaboration with other universities / industry / institute: **M.Sc. (4<sup>th</sup> Semester): 20 %**

**29. Awards / recognitions received at the national and international level by**

**Faculty**

**Prof. R. B. Panda:**

- National Environment Award - 1994 (SubakaranSarawagi Environment Award) for the outstanding contribution to the Nation in the conservation of environment in mining sector, awarded by Federation of Mining Industries and Ministry of Environment & Forest, Govt. of India.

**Prof. S. K. Swain:**

- INSA Research Fellowship - 2013 to do research work at IACS, Kolkata, Govt. of India
- DAE Young Scientist Research Award-2008-09, Department of Atomic Energy, Board of Research in Nuclear Sciences (BRNS), Govt. of India
- JNCASR Visiting Fellowship - 2007-2008, Jawaharlal Nehru Centre for Advance Scientific Research (JNCASR), Bangalore, Govt. of India
- BOYSCAST Post-doctoral Fellowship- 2004-05, Department of Science and Technology, Govt. of India to avail post-doctoral research work at the University of Akron, Ohio, USA
- Prof. R. K. Nanda Memorial Award - 1994 for Best Lecture at Ravenshaw College, Cuttack

**Dr. S. Dash:**

- JRF & SRF by CSIR –UGC JEE
- Prof. R. C. Tripathy Young Scientist Award – 2007
- Prof. D. N. Patnaik award for best paper by OCS-2009

**Dr. P. Mohapatra:**

- Brain Korea 21<sup>st</sup> Century (BK 21) Post-doctoral Fellowship, South Korea

**Dr. A. K. Panda:**

- The research work on “Waste Plastic to Liquid Fuel” has been widely acclaimed in media internationally.

**Dr. M. Mohapatra:**

- Prof. R. K. Nanda Memorial Award (Best Oral Presentation) in 22<sup>nd</sup> Annual Conference of Orissa Chemical Society
- Best Ph.D. Thesis Award (Langmuir Award) in Physical and Theoretical Chemistry at IIT Madras
- Post-doctoral Research Fellowship, IIT Madras

**Dr. A. K. Barick:**

- Hanyang Brain Post-doctoral Fellowship- 2012-13, Hanyang University, South Korea

**Dr. B. N. Ghosh:**

- Post-doctoral Fellowship, University of Jyvaskyla, Finland

### Doctoral / Post-doctoral Fellows:

#### Dr. SK Basiruddin:

- Dr. D.S. Kothari Post-doctoral Fellowship, UGC, New Delhi

#### Students:

- Students are participating in regional/national level events and bagged prize and medals
- Students are awarded for poster/oral presentations at regional/national/international conferences/seminars

### 30. Seminars / Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Our department has successfully organized two national conferences as details below:

| Sl. No. | Year & Date            | Name of Organizing Department | Name of Seminars / Conferences / Workshops                            | Source of Funding                 |
|---------|------------------------|-------------------------------|---|-----------------------------------|
| 1       | 26-27<br>October, 2013 | Chemistry                     | National Conference in Recent Advancement in Material Science (RAIMS) | MCL, SBI, CSIR, TEQIP Cell, VSSUT |
| 2       | 23-24<br>August, 2014  | Chemistry                     | National Conference in Recent Advancement in Material Science (RAIMS) | MCL, SBI, TEQIP Cell, VSSUT       |

### 31. Code of ethics for research followed by the departments

- All the registered Ph.D. research works, carried out under a supervisor, has a Doctoral Scrutiny Committee (DSC) constituted by the university, which regularly conducts meetings to check the research malpractices by means of reviewing the scholars' work. Seminars are conducted to know the progress of the student once in every six months.
- If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinized by a plagiarism software for any malpractices.
- Int. M.Sc., M.Sc., and M.Phil. theses are scrutinized by the concerned guide and reviewed by the academic committee.
- A national level seminar (RAIMS) organized by our department every year, where the Int. M.Sc., M.Sc., M.Phil., and Ph.D. students are encouraged towards research interest by presenting technical papers and poster presentation.

### 32. Student profile programme-wise:

The programme-wise student profile from the start of the programme is given below:

| Name of Programme | Year | Application Received | Selected |        | Pass % |        |
|-------------------|------|----------------------|----------|--------|--------|--------|
|                   |      |                      | Male     | Female | Male   | Female |
| PG (Int. M.Sc.)   | 2014 | > 50                 | 01       | 07     | 100    | 100    |
|                   | 2013 | > 75                 | 07       | 10     | 100    | 100    |

|              |      |      |    |    |     |     |
|--------------|------|------|----|----|-----|-----|
| PG (M.Sc.)   | 2014 | > 75 | 05 | 11 | 100 | 100 |
|              | 2013 | > 75 | 05 | 11 | 100 | 100 |
|              | 2012 | > 15 | 03 | 00 | 100 | 100 |
|              | 2011 | > 15 | 00 | 00 | 100 | 100 |
|              | 2010 | > 40 | 01 | 06 | 100 | 100 |
| PG (M.Phil.) | 2014 | 05   | 02 | 01 | 100 | 100 |
| Ph.D.        | 2014 | > 15 | 05 | 00 | NA  | NA  |
|              | 2013 | 10   | 07 | 03 | NA  | NA  |

### 33. Diversity of students:

The programme-wise diversity of the students is given below:

| Name of the Programme<br>(refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other Countries |
|--|--|--|---|------------------------------------|
| PG (Int. M.Sc.)                                    | 00                                     | 100  | 00  | 00                                 |
| PG (M.Sc.)   | 00                                     | 93   | 07  | 00                                 |
| PG (M.Phil.)                                       | 00                                     | 100  | 00  | 00                                 |
| Ph.D   | 14                                     | 07   | 00  | 00                                 |

### 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

**NET:** 01 (M.Sc.)

**DST INSPIRE Fellow:** 01

**VSSUT Institute Fellow (Ph.D.):** 01

**M.Tech. at CIPET:** 01

### 35. Student progression:

Following is the student progression report of the department:

| Student progression           | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG                      | Nil                         |
| PG to M.Phil.                 | 02                          |
| PG to Ph.D.                   | 02                          |
| Ph.D. to Post-doctoral        | Nil                         |
| Employed                      |                             |
| Campus selection              | 01                          |
| Other than campus recruitment | Nil                         |
| Entrepreneurs                 | Nil                         |

### 36. Diversity of staff

Diversity of faculties are as follow:

| Percentage of faculty who are graduates  |       |
|--|-------|
| of the same university                   | 0.00  |
| from other universities within the state | 81.81 |
| from universities from other states      | 18.18 |
| from universities outside the country    | 0.00  |

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

Ph.D.: 04, Post-doc: 03

### 38. Present details of departmental infrastructural facilities with regard to

- Library: 01 (Central Library Facility)
- Internet facilities for staff and students: Yes
- Total number of class rooms: 01
- Class rooms with ICT facility: Department has LCD facility to conduct Classes
- Students' laboratories: 01
- Research laboratories: 03

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university: Ph.D.: 02
- from other institutions/universities: Ph.D.: 13; Post-doc: 01

### 40. Number of post graduate students getting financial assistance from the university.

UGC: 01; DST: 01

### 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The following points need to be considered before development of new programmes

- The stakeholders (faculties, students, parents, industries, and academia) views were considered for development of a new course with vital focus on recent national/international interests.
- The department assesses the necessity of the development of new programme by presenting the same before the departmental faculty meeting. The views of the faculty members based on their previous academic and industrial experiences are sought by conducting mind-boggling discussions.



- Then departmental committee is constituted to ascertain the need and scope of the programme considering the market demand, status of the programme in the institutions already offering (both reputed institutions & private institutions), opinion from distinguished industrial personalities, etc.
- Based on the recommendation of the committee, detailed study on the strength of the department to offer this programme is conducted.
- Then, a draft curriculum and syllabus is prepared by a committee comprising of faculty members with specialization in the subject programme.
- The draft curriculum is subjected to elaborate discussions in the faculty meeting for finalization of the syllabus.
- After approval from department, the draft is presented in the “Board of Studies”.
- After the approval from the “Academic Council” and the “Board of Management” the programme is offered in the Department

**42. Does the department obtain feedback from**

**a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- Faculties are directly involved for the preparation of syllabus, teaching learning process and evaluation.
- The department analyses the suggestions from faculty members regarding modification of course structure and accordingly appraised in the Board of Studies for necessary actions.
- The senior faculties shared their academic experiences regarding teaching-learning processes, accordingly it is implemented for the maximum benefit of students.
- University is following complete transparency in the evaluation process, as answer sheets are shown to the respective students after evaluation and get signed by them.

**b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The students are given opportunity to express their views on curriculum, syllabus and teaching-learning process.
- The departmental meeting, informal discussion with the concerned students, and feedbacks taken in classrooms are carried out time to time to assess the curriculum, syllabus and teaching-learning process.
- Students are highly reliable on the transparency in evaluation process and satisfied with teaching-learning process.

- Feedbacks taken from the students about course structure, teaching method and evaluation process are analysed and implemented by balancing between junior and senior faculties.
- c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**
- The department interacts with senior experts, delegates, visiting professors regarding curriculum, syllabus, teaching-learning process, etc. and necessary steps are taken to incorporate their valuable suggestion.
  - Discussion with experts who have visited our university for workshop, conference, seminar, and academic meetings are considered for maximum development and exploration of the students.

**43. List the distinguished alumni of the department (maximum 10):**

We are supporting department to UG courses conducted by engineering departments. However, PG and Ph.D. courses are opened recently so we are expecting distinguished alumni in near future.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

We are inviting senior distinguished delegates to our department for delivering special lectures on recent development in science and technology. However, the department started a series of conferences since the year 2013 as stated below:

| Sl. No. | Year and Date       | Name of organising Department | Theme / Title                                  |
|---------|---------------------|-------------------------------|--|
| 1       | 26-27 October, 2013 | Chemistry                     | Recent Advancement in Material Science (RAIMS) |
| 2       | 23-24 August, 2014  | Chemistry                     | Recent Advancement in Material Science (RAIMS) |

**45. List the teaching methods adopted by the faculty for different programmes.**

Based on the previous experience and available expert guidance, various teaching methodologies are adopted by the faculty members for different programmes offered by the department for easy understanding and maximum benefit of the students:

- Brain Storming Discussions
- Case Studies
- group Meetings

- Black Board Teachings
- LCD Presentations
- NPTEL Video Presentations
- Illustration with Physical Models
- Quiz and Surprising Class Tests
- e-Learnings
- Industrial Visits
- Students Seminar Presentations
- Distribution of Soft/Hard Copy of Handouts/Study Materials/Power Points

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The examination system including assignments, viva voce, class tests, mid-semester examination, end-semester examination ensure that the programme objectives and outcomes are met through periodical reviews.
- Departmental meetings are conducted at regular intervals to monitor the teaching learning process and ensure that the programme objectives and outcomes are constantly met the standard.
- In addition, department conducts regular meetings comprising of all the stakeholders including, students, faculty, employers, parents, and industries to review the system of ensuring programme objectives and outcomes through the teaching leaning process and evaluation methods.

**47. Highlight the participation of students and faculty in extension activities.**

- National and international conferences/seminars
- Workshop,short term course, summer schools, faculty development programme
- Students also participate in various co-curricular activities take place at NITs and IITs

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Students are actively participated in National level Seminar on “Recent Advancement in Material Science (RAIMS)” that deals with invited lectures, plenary session, guest lectures, poster presentation, etc.
- Students are encouraged to participate in various state and national level technical events organized by other Institutions/universities.
- Students are also organize technical fest, cultural fest and literary fest every year.

- Students are also encouraged to participate in sports activities within the university and conducted by other Institutions/universities.
- Students have membership in societies like Youth Red Cross, NSS etc. and involve in social activities.
- Students are encouraged to participate in value added programs.
- Industrial visits are arranged regularly and in-plant training is also encouraged.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

- The courses (Integrated M.Sc., M.Sc., M.Phil., and Ph.D.) offered by the department are recognized by UGC.
- Our department has already applied for funding in UGC-SAP and DST-FIST programmes.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Developed a unique economic water treatment process for treatment of hexavalent chromium in mines discharged water.
- Developed a cost effective technique for removal of fluoride in drinking water.
- Developed a cost effective technique for bio-reclamation of waste land in mining area
- Innovative process for Preparing Polymer Nanocomposites is developed.
- Advance laboratory method is developed for synthesis of quantum dots containing cationic block copolymer.
- Developed an innovative technology for catalysis conversion of waste plastic to liquid fuel.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- Well experienced, qualified and dedicated faculties having strong research background
- The faculties are specialized in different branches of chemistry such as nanotechnology, environmental science, industrial chemistry etc.
- All the faculty members are having doctorate degree (Ph.D.) and post-doctoral experiences
- Maximum faculties are having research experiences at foreign universities
- Faculties have published good number of technical papers in peer reviewed international journals and also getting more number of citations
- Implementation of nationally updated curriculum
- Students are actively participated in curriculum and extra-curriculum activities
- Senior faculties are doing research works in the recent scientific fields

**Weaknesses:**

- Additional space required for the expansion of classrooms and laboratory
- Far away from the airport and capital
- Less number of patents and technology transferred
- Faculty exchange program
- Mutual collaboration with other universities and industries of national importance

**Opportunities:**

- The department is coming in a fast growing industrial sector of the mining enriched area.
- Lot of scopes are there for collaborative research works and industrial consultancy.
- More job opportunities for completed students
- Collaborative research project with foreign universities in the area of mutual interests of current research and development fields.
- Industry supported professor chair
- Emeritus professors may get chance to serve in the department

**Challenges:**

- Within the limited resources as newly born department we have to prepare ourselves to compete with the growing advance science and technology of the recent scenario.
- Inculcate of ethical values in the mind of students
- Collaboration with foreign universities to promote study in abroad and student exchange program
- Balancing administrative, academic, research, and consultancy works

**52. Future plans of the department.**

- A separate building with laboratory facilities will be constructed for the department
- The department will build up with equipment and sophisticated laboratory facilities
- The department will develop an excellent center to provide knowledge and work opportunities
- The department will act as a nodal consultancy center to the growing industrial belt with

natural resources

- Reputed industries are expected to provide assignment on various consultancy works.
- Revenue generated in consultancy process may be utilized for the development of infrastructure and laboratory of the department
- The department is planning to organize international symposia, conferences, seminars and workshops

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Physics

2. **Year of Establishment:** 1956

3. **Is the Department part of School/ Faculty of the University:**

Full Fledged Department

4. **Names of the programmes offered:**

**UG:** Integrated M.Sc. &B.Tech.

**PG:** M.Sc. (Applied Physics),IntegratedM.Sc

**M.Phil.** (Physics)

**Ph.D.** (Physics)

5. **Interdisciplinary programmes and departments involved:**

The following subjects are interdisciplinary

- (i) Physics theory/Laboratory in Integrated M.Sc programme of Chemistry Department.
- (ii) Computer Programming in C (theory) and Computer Programming Lab in M.Sc (Applied Physics) are offered by Department of Computer Sci. &Engg.

6. **Courses in collaboration with the other universities, industries, foreign institutions etc.**

Academic and Research Collaborations are on-going with Utkal University, Sambalpur University, Berhampur University, Institute of Physics, Bhubaneswar, NIT Rourkela, Institute of Minerals & Materials Technology (IMMT) Bhubaneswar, National Inst. Of Science Education & Research (NISER) Bhubaneswar, IIT Bhubaneswar.

Further, the department also organizes seminars/workshops/short-term courses for enriching the knowledge& research collaborations of the department.

7. **Details of programmes discontinued, if any, with reasons:**No

8. **Examination system:** Semester System

Further, the efforts have been initiated to implement the Choice based elective subjects from 2015-2016 session as per the academic council meeting.

9. **Participation of the department in the courses offered by other departments:**

The faculty of the department are participating in the following courses offered by the other departments:

- Engineering Physics of B. Tech course of all the Branches.
- Physics theory/Laboratory classes in Integrated M.Sc. programme of Chemistry Department.

**10. Number of Teaching posts sanctioned, filled, and Actual:**

|                                    | Sanctioned | Filled | Actual (including CAS & MPS) |
|------------------------------------|------------|--------|------------------------------|
| <b>Professor</b>                   | 04         | 01     | Nil                          |
| <b>Associate Professor</b>         | 06         | Nil    | Nil                          |
| <b>Assistant Professor/ Reader</b> | 06         | 07     | Nil                          |
| <b>Others*</b>                     |            |        |                              |

\*The department has one contractual faculty for the smooth running of classes, however, the university has already advertised for the recruitment of other faculty.

**11. Faculty profile with name, qualification, designation, area of specialization, experience, and research under guidance**

| Name                       | Qualification         | Designation         | Specialization                              | No. of Years of Experience | No. of Ph.D./M.Phil. students guided/ guiding for the last 4 years |
|----------------------------|-----------------------|---------------------|---|----------------------------|--|
| Dr.Piyush Ranjan Das       | M.Sc., Ph.D.          | Professor           | Condensed Matter Physics, Materials Science | 26                         | Ph.D: 05 (Awarded)<br>02 (Submitted)<br>07(in-progress)            |
| Dr.Akhyaya Kumar Pattanaik | M.Sc., Ph.D.          | Assistant Professor | Condensed Matter Physics, Materials Science | 12                         | PhD: 04 (in-progress)  |
| Dr.SantanuSengupta         | M.Sc., Ph.D.          | Assistant Professor | Computational Quantum Mechanics             | 18                         | Nil  |
| Dr.SunandaKumariPatri      | M.Sc., Ph.D.          | Assistant Professor | Condensed Matter Physics                    | 11                         | 01 Ph.D. (in- progress)  |
| Dr.AnjanaAcharya           | M.Sc., Ph.D.          | Assistant Professor | Nuclear Physics,Solid State physics         | 14                         | 2 M.Phil students<br>2 Ph.d students (in- progress)                |
| Dr.GaneswarNath            | M.Sc., Ph.D.          | Assistant Professor | Ultrasonics                                 | 12                         | PhD:<br>02,M.Phil:01 (in-progress)                                 |
| Dr. P. Lakshmi Praveen     | M.Sc., M.Phil., Ph.D. | Assistant Professor | Soft Condensed Matter Physics,              | 04                         | Nil  |



|                      |            |                     |                   |     |     |
|----------------------|------------|---------------------|-------------------|-----|-----|
|                      |            |                     | Liquid Crystals   |     |     |
| Mr. SiddheswarBehera | M.Sc., NET | Assistant Professor | Materials Science | Nil | Nil |

**12. List of senior visiting fellows, adjunct faculty, and emeritus professors:**

- Dr. P. Nayak, Emeritus Scientist, Sambalpur University
- Dr. B. Nayak, Ex-Registrar, Utkal University

**13. Percentage of classes taken by temporary faculty-programme-wise information:**

**UG (B.Tech.):** 10%, the rest of the classes in other programmes are handled by regular faculty.

**14. Programme-wise student teacher ratio: M.Sc.: 15:1**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

|   | Sanctioned | Filled              |
|---|------------|---------------------|
| <b>Academic Staff (Lab Demonstrators)</b>                   | 02         | 02                  |
| <b>Administrative Staff (Junior Asst., Peon, Attendant)</b> | 03         | 02 (Peon/Attendant) |

**16. Research thrust areas as recognized by major funding agencies:**

The faculty of the department are engaged in the active research in the following thrust areas recognized by the funding agencies:

- Computational Quantum Mechanics (Funded by DST, New Delhi)
- Piezoelectric Ceramics (Funded by DST, New Delhi)
- Ultrasonics (Funded by DRDO & UGC, New Delhi)

**17. Number of faculty with on-going projects from National Funding agencies with total grants received.**

| S. No. | Title of the Project  | PI/Co- PI          | Funding Agency | Amount In Lakhs |
|--------|---|--------------------|----------------|-----------------|
| 1      | Development of high temperature piezoelectric ceramics based on (1-x) Bi (Me', Me'')O <sub>3</sub> -x PbTiO <sub>3</sub> Systems<br>Project No.: <i>SR/FTP/PS-63/2008</i> | Dr A. K. Pattanaik | DST, New Delhi | 20.28           |
| 2      | Investigations on numerical methods for studying Bohmian quantum trajectories<br>Project No.: SR/S2/LOP-31/2013 dated   | Dr. S. Sengupta    | DST, New Delhi | 6.00            |

|   |   |                                   |                    |      |
|---|---|-----------------------------------|--------------------|------|
|   | 15.07.2014  |                                   |                    |      |
| 3 | Ultrasonic Characterisation of nanofluids for various concentration at different temperatures<br>ProjectNo.F.20-1(28)/2012(BSR) | Dr. G. Nath                       | UGC,<br>New Delhi  | 6.00 |
| 4 | Development of ultrasonic absorbant composite material using date palm leaf fiber<br>Project<br>No.ERIP/ER/1203119/M/01/1529    | Dr. J. R. Mohanty/<br>Dr. G. Nath | DRDO,<br>New Delhi | 7.38 |

**18. Inter-institutional collaborative projects and associated grants received**

- (a) **National Collaboration:** Nil  
(b) **International Collaboration:** Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE etc.; total grants received: Nil**

**20. Research facility/ centre with**

- a) **State Recognition:** The University is State-Government funded  
b) **National Recognition:** Nil  
c) **International Recognition:** Nil

**21. Special research laboratories sponsored by/ created by industry or corporate bodies:**  
Nil

**22. Publications:**

- a) **Number of papers published in peer reviewed journals(National/ International):  
DURING THE LAST FIVE YEARS (2010-2015):**

|                                   |           |
|-----------------------------------|-----------|
| <b>1. Prof. P. R. Das:</b>        | <b>84</b> |
| <b>2. Dr.A.K.Pattanaik:</b>       | <b>01</b> |
| <b>3. Dr. S. Sengupta:</b>        | <b>01</b> |
| <b>4. Dr.S.K.Patri:</b>           | <b>10</b> |
| <b>5. Dr. G.Nath:</b>             | <b>20</b> |
| <b>6. Dr. P. Lakshmi Praveen:</b> | <b>43</b> |

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**TOTAL: 159**

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- b) **Monographs:** Nil  
c) **Chapters in Books:** **02 (Dr.S.Sengupta)**  
d) **Edited Books:** Nil

e) **Books with ISBN with details of publishers:**

**02 (Dr.S.K.Patri) + 01 (Dr.A.Acharya)**

**1. Dielectric Materials: Introduction, Research and Applications**

R.N.P. Choudhary, **S.K.Patri**

Nova Science Publishers.Inc. New York, 2009

ISBN: 978-1-60741-039-3

**2. Multiferroics: Principle, Progress and Prospects**

**S. K. Patri**, R. N. P. Choudhary

Lambert Academic Publishing, Germany, 2013.

ISBN: 978-3-659-24330-1

**3. Text Book on Physics of Semiconductor Devices**

**A. Acharya**, Alok Publications, Bhubaneswar, 2009.

ISBN: 978-81-905015-3-4

f) **Number listed in database (For Ex. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO Host, etc.)**

g) **Citation Index – range/ average:**

h) **SNIP:**

i) **SJR:**

j) **Impact Factor – range/ average:** Range: 1.0-6.0 & Average: 2.75

k) **h-index:**12

23. **Details of patents and income generated:** Nil

24. **Areas of consultancy and income generated:** Nil

25. **Faculty selected nationally/ internationally to visit other laboratories/ institutions/ industries in india and abroad:**

Dr.A.K.Pattanaik, and Dr. A. Acharya has been invited to visit the labs of Institute of Physics, Bhubaneswar.

**26. Faculty serving in**

- a) **National Committees:** Dr.P.R.Das is a executive committee member in NSFD  
(National Seminar on Ferroelectrics & Dielectrics)
- b) **International Committees:** Nil
- c) **Editorial Boards:** Nil
- d) **Any other:** Nil

**27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programs, workshops, training programs, and similar programs).**

The faculty of the department are regularly attending Refresher Courses, Workshops, National/ International Conferences, and presenting papers to update their knowledge, academic, and research skills.

**28. Student projects**

- a) **Percentage of students who have done in-house projects including inter-departmental projects:** 100%
- b) **Percentage of students doing projects in collaboration with other universities/ industry/ institute:** 20%

**29. Awards/ recognitions received at the national and international level by**

- a) **Faculty:**
1. Dr. P. Lakshmi Praveen received “**Young Scientist Award-2012**” by Dr.K.V.Rao Society, Hyderabad.
  2. Dr.G.Nath received “**Dr.M.Pancholy Award-2013**” by Ultrasonic Society of India.
- b) **Doctoral/ Post-Doctoral Fellows RA(CSIR):** Nil
- c) **Students:** Nil

**30. Seminars/ Conferences/ Workshops organized and the source of funding with details of outstanding participants, if any:**

The department organized a two day conference on “*Recent Advances in Science for Technology (RAST-2012)*” during 27-28, February 2012.

Source of Funding: DRDO, New Delhi& MCL, Sambalpur.

**31. Code of ethics for research followed by the departments:**

All the registered Ph.D. research work carried out under a supervisor has a Doctoral Scrutiny Committee (DSC) constituted by the university, which regularly conducts meetings to check the research malpractices by means of reviewing the scholar’s work. Seminars are conducted to know the progress of the student’s work once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinized by a

plagiarism software for any malpractices. Integrated M.Sc., M.Sc., and M.Phil., and Ph.D. students in the national level are encouraged towards research interest by presenting technical papers, poster presentations.

### 32. Student profile program-wise: (Approximate Data)

| Name of the programme | Applications Received    | Selected |        | Pass Percentage |        |
|-----------------------|--------------------------|----------|--------|-----------------|--------|
|                       |                          | Male     | Female | Male            | Female |
| B.Tech                | Counselling through OJEE | 350      | 150    | 93%             | 98%    |
| M.SC                  | 130                      | 04       | 11     | 100%            | 100%   |
| M.Phil                | 09                       | 03       | Nil    | ----            | ----   |
| Ph.D.                 | 11                       | 01       | 02     | ----            | ----   |

### 33. Diversity of students:

| Name of the Programme | % of students from the same university | % of students from other universities within the state | % of students from universities outside the state | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| M.Sc.                 | Nil                                    | 100%   | Nil   | Nil                                |
| M.Phil.               | Nil                                    | Nil  | Nil   | Nil                                |
| Ph.D.                 | 45%                                    | 55%  | Nil   | Nil                                |

### 34. How many students have cleared civil services and Defense services examinations, NET, SET, GATE and other competitive examinations?

One student qualified GATE exam in Year 2012.

### 35. Student progression

| Student Progression              | Percentage against enrolled |
|----------------------------------|-----------------------------|
| UG to PG                         | Not Applicable              |
| PG to M.Phil.                    | 15%                         |
| PG to Ph.D.                      | 40%                         |
| Ph.D. to Post-Doctoral           | Nil                         |
| Employed                         | Nil                         |
| a) Campus Selection              |                             |
| b) Other than campus recruitment |                             |
| Entrepreneurs                    | Nil                         |

### 36. Diversity of staff:

| Percentage of the faculty who are graduates |                                    |
|---|------------------------------------|
| Of the same university                      | Nil                                |
| From other universities within the state    | 75% (06 out of 08 Faculty Members) |
| From universities of other states           | 25% (02 out of 08 Faculty Members) |
| Universities outside the country            | Nil                                |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc., and D.Litt. during the assessment period:** Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a) **Library:** Central Library
- b) **Internet facilities:** Available
- c) **Total Number of Class Rooms:** 02
- d) **Class Rooms with ICT Facility:** Nil
- e) **Student's Laboratories:** 02
- f) **Research Laboratories:** 02

**39. List of doctoral, post-doctoral students and research associates:**

**Doctoral Students:**

| S.No. | Name of the Supervisor                 | Name of the Student      |
|-------|--|--------------------------|
| 1.    | Prof. P. R. Das                        | Ms.SaparjyaSamarpita     |
|       |  | Ms.GeetanjaliBiswal      |
|       |  | Mr. Sanjib Kumar Mohanty |
| 2.    | Dr. A. K. Pattanaik                    | Mr.JagabandhuPradhan     |
|       |  | Mr.Hiranya Kumar Mallick |
|       |  | Ms.Manasmita Mishra      |
|       |  | Mr. Om PrakashSatnami    |
| 3.    | Dr. S. K. Patri                        | Ms. P. L. Deepthi        |
| 4.    | Dr. A. Acharya                         | Mr.RajibLochanNayak      |
|       |  | Ms.TruptiSahoo           |
| 5.    | Dr. G. Nath                            | Mr.AbhishekSarangi       |
|       |  | Ms.RanjeetaGiri          |
|       | <b>Total Number of Ph.D. Scholars:</b> | <b>12</b>                |

**Post-Doctoral Students:** Nil

**Research Associates:** Nil

**40. Number of post graduate students getting financial assistance from the university:**

- Mr. Bivash Rath Attreya, a student of M.Sc. IV Semester has been selected for INSPIRE fellowship from DST, New Delhi.
- Miss Prabhasini Gupta and Miss Sonali Patnaik of M.Sc (Applied Physics) 2014-15 admission batches are selected to get Scholarship from State Council of Science & Technology Department, Govt. of Odisha

**41. Was any need assessment exercise undertaken before the development of new programmes? If so, highlight the methodology:**

The methodology has been given step-wise below:

- Constitution of Departmental Committee

- Survey of Basic needs and requirements of the department to implement the new programme.
- Reporting the minutes of Departmental Committee to the subject experts from reputed Institutions.
- After taking consents from experts, the draft will be sent to the 'Board of Studies'.
- To obtain the approval from the academic council, and board of management to implement the new programme.

**42. Does the department obtained feedback from**

**a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

- Faculties are directly involved in preparation of syllabus, teaching learning process and evaluation.
- Faculty members also represent in Board of Studies, and academic council to express the feedback from staff, and students on both curriculum, and teaching-learning processes.
- Recommendations of staff members are submitted to board of studies for their approval after the rigorous discussions chaired by the HOD.
- The recommendations of board of studies will be implemented.

**b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize that feedback?**

- The students are given opportunity to express their feedback on syllabus, staff, and the examination process.
- The evaluation process is transparent, the students are asked to see their paper, and to sign the paper before submitting the final scripts to the examination cell.
- The feedbacks from students on the above-cited points are discussed in the departmental meeting to improve the teaching-learning-evaluation process.

**c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The formal and informal discussions with employers who completed their higher studies are made to improve the curriculum.

**43. List the distinguished alumni of the department:**

Nil (The M.Sc./ Integrated M. Sc. department has been established in 2008, and 2014 respectively). The department is supporting to B.Tech. course.

**44. Give the details of student enrichment programmes:**

The department regularly conducts special lectures, seminars by eminent professors for the benefit of the students. Further, individual Project Work for M.Sc. IV Semester Students.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Blackboard
- LCD presentations
- Seminars
- Spot exam followed by analysis
- Group discussions
- Digitized lecture notes

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The examination system includes class tests, Mid/ End Semester exams, which ensures that the programme objectives and outcomes are met through periodical reviews.
- Regular Departmental meetings are conducted to review the teaching-learning process, and ensure that the programme objectives are constantly met.
- Necessary actions are taken to cover any discrepancy, if found.

**47. Highlight the participation of students and faculty in extension activities.**

The M.Sc. IV Semester students got selected, and participated in the following events:

1. Mr. Mitesh Kumar Behera participated in the following national events:
  - (a) **Winter School on Astrophysics & Astronomy** at Indian Institute of Space Science & Technology (IIST), Tiruvananthapuram during 10-19 December 2014.
  - (b) **Winter School on Astroparticle Physics** at Tata Institute of Fundamental Research (TIFR), Mumbai during 21-29 December 2014.
2. Mr. Bivash Rath Attreya participated in the following events:
  - (a) **Winter School on Photonics** at IISER Kolkata during 26-29 December 2013.  
Further, he participated in many quiz programmes conducted at various places.  
The list is as given below:

| SI No | Event Name   | Date Of The Event  | Organizing Institution/Firm           | Position Secured |
|-------|--|--|---------------------------------------|------------------|
| 1     | Tata Crucible Campus Quiz 2015 Ranchi (Regional Round) | <a href="http://www.tatacrucible.com/campus/report2015/ranchi.html">http://www.tatacrucible.com/campus/report2015/ranchi.html</a><br>3.03.2015 | The Tata Group                        | First            |
| 2     | Tata Crucible Campus Quiz East Zone Finals 2015        | <a href="http://www.tatacrucible.com/campus/report2015/east.html">http://www.tatacrucible.com/campus/report2015/east.html</a><br>15.03.2015    | The Tata Group                        | Tied Third       |
| 3     | Noesis 2015 General Quiz                               | 26.02.2015   | Silicon Institute Of Engineering Bbsr | First            |



|    |   |            |  |        |
|----|---|------------|--|--------|
| 4  | Noesis 2015<br>Technology Quiz                    | 27.02.2015 | Silicon Institute Of<br>Engineering Bbsr         | Third  |
| 5  | Noesis 2015<br>Business Quiz                      | 28.02.2015 | Silicon Institute Of<br>Engineering Bbsr         | First  |
| 6  | Perception 2015<br>Technology Quiz                | 22.02.2015 | College Of<br>Engineering And<br>Technology Bbsr | First  |
| 7  | Perception 2015<br>General Quiz                   | 22.02.2015 | College Of<br>Engineering And<br>Technology Bbsr | First  |
| 8  | Crosstalk – Debate<br>Competition                 | 21.02.2015 | International<br>Management Of<br>Institute      | First  |
| 9  | Xfactor – Talent<br>Show                          | 21.02.2015 | International<br>Management Of<br>Institute      | Second |
| 10 | Brain-O-Quiz                                      | 21.02.2015 | International<br>Management Of<br>Institute      | First  |
| 11 | Melas Quiz  | 15.02.2015 | Kiit Fest  | Third  |
| 12 | Igit Youth Fietsa,<br>Unmesh 2015<br>General Quiz | 10.01.2015 | Igit Sarang                                      | First  |
| 13 | Heritage Quiz<br>2014-15                          | 27.10.2014 | Intach   | Second |
| 14 | Quizzotica  | 25.10.2014 | Oec Bbsr   | Fifth  |
| 15 | Quizzicus Indica                                  | 19.10.2014 | Odisha Quiz<br>Association                       | Second |
| 16 | Tata Crucible<br>Campus Quiz<br>Ranchi 2014       |            | THE TATA<br>GROUP                                | Second |
|    |   |            |  |        |

3. The students, and staff are regularly taking part in Blood Donation Camps by the university from time-to-time on various occasions.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Conducting National Seminars, guest lectures by eminent professors.
- The students are encouraged to participate in regional/ national level fests, and seminars.

**49. State whether the programme/ department is accredited/ graded by other agencies?  
If yes give the details.**

Not Applicable.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has major thrust areas of research, which are already recognized by various funding agencies viz., DST, DRDO, and UGC, New Delhi. Further, the department is actively engaged in research on Multiferroics, Ferroelectric Ceramics, Nano composites, and Liquid Crystals.

The research work by the Department has been recognized, and published as evident from the research publications of the Department.

**51. Five Major Strengths, Weaknesses, Opportunities, and Challenges (SWOC) of the Department:**

**Major Strengths:**

- Well experienced, and qualified faculty *i.e.*, 7 Ph.D. holders out of 8 Faculty Members
- Major Research Areas recognized by the Funding Agencies
- Theoretical & Experimental Research Potential as evident from Research Publications (**Nos. 159 during last five years**), and Research Scholars
- Upto-date research oriented curriculum
- Student participation.

**Weaknesses:**

- Additional space for expansion of laboratories, and class rooms
- Far Away from Air port
- Poor connectivity to the major cities.

**Opportunities:**

- Collaborative research work with national/ international institutions.
- Possibility of offering more specializations in PG programme.
- Possibility of obtaining Departmental/ Inter-institutional research projects.
- Establishment of Computational/ Experimental Research Laboratories.

**Challenges:**

- To inculcate ethical values in students.
- To transform students towards scientific research.
- Establishment of Qualitative Research Labs.

**52. Future plans of the department.**

- To initiate M.Tech. Programmes in Solid State Physics, Nanotechnology, and Nuclear Technologies.
- To set up Computational & Experimental Research Laboratories
- To implement more specializations in M.Sc. Programme.
- To obtain DST-FIST & UGC-SAP Schemes.
- To organize annual symposium.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department :** Mathematics
2. **Year of establishment :** 1956.
3. **Is the Department part of a School/Faculty of the university?**

The Department is independent and part of the University.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**

| Programme | Year of offering | Student strength |         |         |         |         |
|-----------|------------------|------------------|---------|---------|---------|---------|
|           |                  | 2014-15          | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| UG*       | 1956             | -                | -       | -       | -       | -       |
| PG        | 2013             | 09               | 04      | 00      | 00      | 00      |
| M.Phil    | 2014             | 04               | 00      | 00      | 00      | 00      |
| PhD       | 2012             | 07               | 04      | 02      | 00      | 00      |

\*The Mathematics Department offering UG Mathematics course to all branches of Engineering from 1<sup>st</sup> to 4<sup>th</sup> semester.

5. **Interdisciplinary programmes and departments involved**

Yes (MCA, M.Tech and B.Tech)

| Courses offered  | Departments                      | Programme                  |
|------------------|----------------------------------|----------------------------|
| Programming in C | Computer Science and Engineering | M.Sc.(Applied Mathematics) |
| Numerical Lab    | Computer Science and Engineering | Integrated M.Sc.           |

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

The department conducts various short term courses for benefit of faculty members and students. We are in the process of signing MOU with Institute of Mathematics & Applications, Bhubaneswar

7. **Details of programmes discontinued, if any, with reasons :** No

8. **Examination System: (Annual/Semester/Trimester/Choice Based Credit System)**

Semester system and Examinations held as per the academic calendar.

The academic council of the University has approved Choice Based Credit System from academic session 2015-16.

| Examination Held | Midsem    | Endsem   |
|------------------|-----------|----------|
| Odd Semester     | September | December |
| Even Semester    | March     | May      |

**9. Participation of the department in the courses offered by other departments.**

| <b>Courses offered</b>               | <b>Departments</b>                  | <b>Programme</b> |
|--------------------------------------|-------------------------------------|------------------|
| Research Methodology                 | All Departments                     | Ph.D.            |
| Computational and Statistical Method | Civil                               | M. Tech          |
| Numerical Method in Engineering      | Civil                               | M. Tech          |
| Quantitative Technique               | MCA                                 | MCA              |
| Numerical Method                     | MCA                                 | MCA              |
| Discrete Mathematics                 | MCA                                 | MCA              |
| Mathematics-I                        | All Departments                     | B.Tech           |
| Mathematics-II                       | All Departments                     | B.Tech           |
| Mathematics-III                      | All Departments                     | B.Tech           |
| Mathematics-IV                       | All Departments                     | B.Tech           |
| Discrete Mathematical Structures     | CSE & IT (5 <sup>th</sup> Semester) | B. Tech          |
| Mathematics-I                        | Physics and Chemistry               | Integrated MSc.  |
| Mathematics-II                       | Physics and Chemistry               | Integrated MSc.  |
| Mathematics-III                      | Physics and Chemistry               | Integrated MSc.  |
| Mathematics-IV                       | Physics and Chemistry               | Integrated MSc.  |

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

|                      | <b>Sanctioned</b> | <b>Filled</b> | <b>Actual (including CAS &amp; MPS)</b> |
|----------------------|-------------------|---------------|---|
| Professor            | 04                | 01            | 00                                      |
| Associate Professors | 06                | 00            | 00                                      |
| Asst. Professors     | 07                | 07            | 00                                      |
| Others*              | 00                | 00            | 00                                      |

\*The department has engaged 5 contractual faculty members against the vacant sanctioned post which has been advertised for recruitment. The posts shall be filled up shortly.

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

The department has presently 8 regular faculty members out of which 7 faculty members have doctorate degree, 3 are having post doctorate degrees and another faculty is continuing Ph.D.

| <b>Name</b>        | <b>Qualification</b> | <b>Designation</b>     | <b>Specialization</b>                                 | <b>Years of Experience</b> | <b>No. of Ph.D./M.Phil. students guided for the last 4 years</b> |
|--------------------|----------------------|------------------------|---|----------------------------|--|
| Prof. J.P. Panda   | M.Sc., Ph.D.         | Professor              | Fluid Dynamics, Numerical Analysis                    | 1 Year                     | 02<br>(Ph.D. Thesis)   |
| Dr. M.K. Jena      | M.Sc., Ph.D.         | Asst. Professor        | Computer Aided Geometric Design, and Wavelet Analysis | 9 Years                    | 01<br>(M.Phil)   |
| Dr. S.K. Paikray   | M.Sc., Ph.D.         | Asst. Professor        | Analysis  | 1 Year                     | 01<br>(M.Phil)   |
| Dr S K Padhan      | M.Sc., Ph.D.         | Asst. Professor        | Optimization and Applied Functional Analysis          | 3.5 Years                  | 01<br>(M.Phil)   |
| Dr. P.K. Jena      | M.Sc., Ph.D.         | Asst. Professor        | Operator Theory                                       | 1 Year                     | Nil  |
| Dr. S.R. Mohapatra | M.Sc., Ph.D.         | Asst. Professor        | Computational Fluid Dynamics                          | 1 Year                     | 01<br>(M.Phil)   |
| Dr. I Nayak        | M.Sc., Ph.D.         | Asst. Professor        | Fluid Dynamics  | 1 Year                     | Nil  |
| Mr. A. Sahoo       | M.Sc., M Phill       | Asst. Professor        | Analysis  | 1 Year                     | Nil  |
| Mr. Rabindra Padhy | M.Sc., M Phill       | Lecturer (Contractual) | Probability, Statistics                               | 1 Year                     | Nil  |
| Mr. P P Roy        | M.Sc., M Phill       | Lecturer (Contractual) | Analysis  | 1 Year                     | Nil  |
| Mr. B. Choudhary   | M.Sc                 | Lecturer (Contractual) | Differential Equation                                 | 1 Year                     | Nil  |
| Mrs. C. Padhy      | M.Sc                 | Lecturer (Contractual) | Numerical Methods                                     | 1 Year                     | Nil  |
| Mrs. B. Panda      | M.Sc., M Phill       | Lecturer (Contractual) | Modern Algebra  | 1 Year                     | Nil  |

**IN OTHER INSTITUTIONS/UNIVERSITY**

| <b>Name</b>      | <b>Qualification</b> | <b>Designation</b> | <b>Specialization</b>                 | <b>No. of Years of Experience</b> | <b>No. of Ph.D./ M.Phil. students guided for the last 4 years</b> |
|------------------|----------------------|--------------------|---------------------------------------|-----------------------------------|---|
| Prof. J.P. Panda | M.Sc.,<br>Ph.D.      | Professor          | Fluid Dynamics,<br>Numerical Analysis | 15 Years                          | 02(Ph.D.<br>Thesis)   |
| Dr. S.K. Paikray | M.Sc.,<br>Ph.D.      | Asst.<br>Professor | Analysis                              | 14 Years                          | 08<br>(M.Phil<br>Thesis)  |

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

We invite expert peoples from Institute of Mathematics & Applications, Utkal University, and NISER, NIT, Rourkela, IIT, Kharagpur.

- Prof. S. Padhy, Director Institute of Mathematics & Applications, Bhubaneswar
- Prof. S. Pattnaik, Professor, Institute of Mathematics & Applications, Bhubaneswar
- Prof. M.P.Biswal, Professor of Mathematics, IIT Kharagpur
- Prof. G.K.Panda, Professor of Mathematics NIT, Rourkela
- Prof. P.C.Das, Professor of Mathematics NISER Bhubaneswar
- Prof. G.C.Dash, Professor of Mathematics S.O.A. University, Bhubaneswar
- Prof. U K Tripathy, Professor of Mathematics KIIT University, Bhubaneswar
- Prof. H.B.Patnaik, Professor of Mathematics KIIT University, Bhubaneswar
- Prof. R.B. Dash, Professor of Mathematics, Ravenshaw University, Cuttack
- Prof. B.P.Acharya, Professor of Mathematics S.O.A. University, Bhubaneswar
- Prof. P.K.Satpathy, Professor of Mathematics S.O.A. University, Bhubaneswar

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

20%

**14. Programme-wise Student Teacher Ratio**

|                                 |       |
|---------------------------------|-------|
| <b>B Tech</b>                   | 15: 1 |
| <b>MSC.(Applid Mathematics)</b> | 12: 1 |
| <b>M Phill (Mathematics)</b>    | 10: 1 |

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

| Academic support and administrative staff | Sanctioned | Filled | Actual |
|---|------------|--------|--------|
| Clerk                                     | 00         | 00     | 00     |
| Peon                                      | 1          | 1      | 1      |

**16. Research thrust areas as recognized by major funding agencies**

Fluid Dynamics, Optimization, Analysis, Computer Aided Geometric Design and Wavelet Analysis

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

| SL. No | Name of the Faculty | National Funding agency | International Funding Agency | Total grants received | Project Area     |
|--------|---------------------|-------------------------|------------------------------|-----------------------|------------------|
| 1      | Dr. S.R. Mohapatra  | DST (SERB)              |                              | 12.25 Lakh Rupees     | Fluid Dynamics   |
| 2.     | Dr. M.K.Jena*       | U.G.C.                  |                              | 5 Lakhs               | Wavelet Analysis |
| 3.     | Prof. J P Panda*    | U.G.C.                  |                              | 13 Lakhs              | Fluid Dynamics   |

\* Applied

**18. Inter-institutional collaborative projects and associated grants received**

**a) National Collaboration**

Our faculty members are guiding Ph.D.students of S.O.A. University and Fakir Mohan University. Also Our students and faculty members have participated in National/ International conferences/ Seminars/Workshops and/or refresher courses of NIT Rourkela, Sambalpur University, Utkal University, and Biju patnaik University of Technology (BPUT).

**b) International collaboration**

Our faculty members are guiding Ph.D.students and doing research in collaboration with University of Central Florida, USA

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Applied to different funding agencies like UGC, AICTE, CSIR, DST and NBHM for research grant and conduct of seminar/workshop/SDP etc..

**20. Research facility / centre with**

- **State recognition:** Yes.
- **National recognition:** Yes.
- **International recognition :** Yes.

Collaboration with Institute National Research Scientific, Quebec, Canada for formalise cooperation in the development of research and training in the fields of mutual interest through activities of UNESCO and MATECSS

**21. Special research laboratories sponsored by / created by industry or corporate bodies:** Nil.

**22. Publications:**

- **Number of papers published in peer reviewed journals (national / international)**
- **Monographs**
- **Chapters in Books**
- **Edited Books**
- **Books with ISBN with details of publishers**
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index – range / average**
- **SNIP**
- **SJR**
- **Impact Factor – range / average**
- **h-index**

**Give details of publications by the faculty:**

- **Number of papers published in peer reviewed journals**

| <b>Name of Faculty</b> | <b>national / international</b> |
|------------------------|---------------------------------|
| Dr. J.P. Panda         | 30                              |
| Dr. M.K. Jena          | 8                               |
| Dr. S.K. Paikray       | 21                              |
| Dr. S.K. Padhan        | 11                              |
| Dr. S.R. Mohapatra     | 11                              |
| Dr. P.K. Jena          | 5                               |
| Dr. (Mrs) I. Nayak     | 4                               |
| Mr. A. Sahoo           | 4                               |

- **Monographs - NIL**
- **Chapters in Books – 01**
  - S K Padhan and C Nahak- One chapter of the book”Topics in conconvex optimization” Springer optimization and its application , vol. 50 ,pp.205-214, 2011
- **Books edited – NIL**



- **Books with ISBN with details of publishers**

| SL. NO. | Name of the Faculty | Name of the Book           | Publisher     | ISBN           |
|---------|---------------------|----------------------------|---------------|----------------|
| 1       | Dr. J.P. Panda      | Engineering Mathematics II | SBG Publisher | 978-81-9208422 |

- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)**

| SL. NO. | Name of the Faculty | Number listed in Scopus |
|---------|---------------------|-------------------------|
| 1       | Dr. J.P. Panda      | 26                      |
| 2       | Dr. M.K. Jena       | 4                       |
| 3       | Dr. S.K. Paikray    | 1                       |
| 4       | Dr. S.K. Padhan     | 6                       |
| 5       | Dr. (Mrs) I. Nayak  | 1                       |
| 6       | Dr. S.R. Mohapatra  | 10                      |
| 7       | Dr. P.K. Jena       | 1                       |

- **Citation Index – range / average**

| SL. NO. | Name of the Faculty | Citation Index – Range | Average |
|---------|---------------------|------------------------|---------|
| 1       | Dr. J.P. Panda      | 1-13                   | 0.5     |
| 2       | Dr. M.K. Jena       | 1-15                   | 3.4     |
| 3       | Dr. S.K. Paikray    | 0 - 1                  | 0.5     |
| 4       | Dr. S.K. Padhan     | 1-4                    | 1.3     |
| 5       | Dr. (Mrs) I. Nayak  | 0-1                    | 1       |
| 6       | Dr. S.R. Mohapatra  | 0-6                    |         |
| 7       | Dr. P.K. Jena       | 0 - 1                  | 0.5     |

- SNIP

- SJR

- **Impact Factor – range / average**

| SL. NO. | Name of the Faculty | Impact Factor – range | average |
|---------|---------------------|-----------------------|---------|
| 1       | Dr. J.P. Panda      | 0.04 – 2.522          | 0.72    |
| 2       | Dr. M.K. Jena       | 0.4-1.5               | 0.75    |
| 3       | Dr. S.K. Paikray    | 0.011-3.402           | 0.67    |
| 4       | Dr. S.K. Padhan     | 0.7-1.8               | 0.55    |
| 5       | Dr. (Mrs) I. Nayak  | 0.4-1.0               | 0.35    |
| 6       | Dr. S.R. Mohapatra  | 0.04-1.5              | 0.8     |
| 7       | Dr. P.K. Jena       | 1                     |         |

- **h-index**

| SL. NO. | Name of the Faculty | h-index |
|---------|---------------------|---------|
| 1       | Dr. J.P. Panda      | 2       |
| 2       | Dr. M.K. Jena       | 2       |
| 3       | Dr. S.K. Paikray    | 0       |
| 4       | Dr. S.K. Padhan     | 2       |
| 5       | Dr. (Mrs) I. Nayak  | 1       |
| 6       | Dr. S.R. Mohapatra  | 4       |
| 7       | Dr. P.K. Jena       | 0       |

- Give details of faculty serving on the editorial boards of national and international journals

| SL. NO. | Name of the Faculty | Editorial Board Member                                     |
|---------|---------------------|--|
| 1       | Dr. J.P. Panda      | International Journals of Dynamics of Fluids               |
| 2.      | Dr. J.P. Panda      | International Journal of Theoretical and Applied Mechanics |

- Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies

| SL. NO. | Name of the Faculty | Members of steering committees                                    |
|---------|---------------------|---|
| 1       | Dr. J.P. Panda      | Session Chair and head of refreshment committee ICCIDM 2014       |
| 2       | Dr. M.K. Jena       | Treasurer RAST 2011, Member of reception committee of ICCIDM 2014 |

- Provide details of Research awards received by the faculty and students

| SL. NO. | Name of the Faculty | Research award      |
|---------|---------------------|---------------------|
| 1       | Dr. M.K. Jena       | GATE 1995, NBHM PDF |
| 2       | Dr. P.K. Jena       | NET, GATE. NBHM PDF |

- Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

| SL. NO. | Name of the Faculty | M.Phil guided | PhD guided |
|---------|---------------------|---------------|------------|
| 1       | Dr. M.K. Jena       | 01            | NIL        |
| 2       | Dr. S.K. Padhan     | 01            | NIL        |
| 3       | Dr. S.R. Mohapatra  | 01            | NIL        |
| 4       | Dr. S.K. Paikray    | 01            | NIL        |

- In other institutes

| SL. NO. | Name of the Faculty | M.Phil guided | PhD guided |
|---------|---------------------|---------------|------------|
| 1       | Dr. J.P. Panda      | NIL           | 02         |
| 2       | Dr. S.K. Paikray    | 07            | NIL        |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad

Our faculty members have done post doctorate fellow in IISC Bangalore, Institute of Mathematics and Applications, Bhubanesewar, IIT Bombay and IHPC Singapore.

26. Faculty serving in

- National committees
- International committees
- Editorial Boards

**d) any other (please specify)**

Prof. J.P. Panda is working as Editorial board member of International Journal of Dynamics of Fluids and Editorial board member of International Journal of Theoretical and Applied Mechanics.

Prof. J.P. Panda is working as reviewer of following International Journals

- International journal of numerical methods in fluid.
- Modelling, Measurement and Control, France,
- Applied Mathematics and Computation, Elsevier
- Indian Journal of Science and Technology
- International Conference of Computational Intelligence in Data Mining, Dec 2014

Dr. M.K. Jena is served as a reviewer of the international journal CAGD.

Prof. J.P.Panda and Dr. M.K. Jena have worked as Organising Committee members of International Conference of Computational Intelligence in Data Mining, Dec 2014

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

| Name               | Refresher Course/ workshops/FDP | Year |
|--------------------|---------------------------------|------|
| Dr. S.R. Mohapatra | Sambalpur University            | 2014 |
| Dr. M.K. Jena      | Sambalpur University            | 2012 |
| Dr. S.K. Paikray   | Sambalpur University            | 2013 |
| Dr. S.K. Padhan    | Sambalpur University            | 2013 |

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects : 80%
- percentage of students doing projects in collaboration with other universities industry / institute : 20%

**29. Awards / recognitions received at the national and international level by**

- Faculty NIL
- Doctoral / post doctoral fellows Dr. P. K. Jena (awarded Ph.D. in 2014)  
Dr. I. Nayak (awarded Ph.D. in 2014)
- Students NIL

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

“Recent Advances in Science and Technology” conducted in 27<sup>th</sup> Feb to 28<sup>th</sup> Feb 2012, which was funded by TEQIP of VSSUT

**31. Code of ethics for research followed by the departments**

The faculty members do research individually as well as with the MPhil/PhD students of this University. The PhD students are full time Research Scholars out of them some get

fellowship. The department conducts seminars regularly. The Faculties and PhD students attends national/international conferences regularly. They publish papers in national/international journals regularly. All the registered PhD research works carried out under a supervisor has a doctoral scrutiny committee (DSC) constituted by the university which regularly conducts meetings to check the research malpractices by means of reviewing the scholar's work. Seminars are conducted to know the progress of the students once in every six months. If the committee finds any deviation, corrective actions are taken accordingly. All the thesis are scrutinized by a plagiarism software for any unfair means adopted. The M.Sc and M.Phil projects thesis are scrutinized by the concerned guide and reviewed by the academic committee.

**32. Student profile programme-wise:**

| Name of the Programme<br>(refer to question no. 4) | Applications received | Selected |        | Pass percentage |        |
|--|-----------------------|----------|--------|-----------------|--------|
|  |                       | Male     | Female | Male            | Female |
| M.Sc.<br>(Applid Mathematics)                      | 24                    | 03       | 01     | 100             | 100    |
| M Phill (Mathematics)                              | 12                    | 01       | 03     | 100             | 100    |

**33. Diversity of students**

| Name of the Programme<br>(refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students From universities outside the State | % of students From other countries |
|--|--|--|---|------------------------------------|
| M.Sc.<br>(Applid Mathematics)                      | 00                                     | 100  | 00  | 00                                 |
| M Phill (Mathematics)                              | 00                                     | 100  | 00  | 00                                 |

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

The first batch student of M.Sc. (Applid Mathematics) and M Phill (Mathematics) will pass in June, 2015. Our students have appeared NET/ GATE examinations. Result awaited.

**35. Student progression**

| Student progression | Percentage against enrolled |
|---------------------|-----------------------------|
| UG to PG            | Nil                         |

|                                 |     |
|---------------------------------|-----|
| PG to M.Phil.                   | Nil |
| PG to Ph.D.                     | Nil |
| Ph.D. to Post-Doctoral          | Nil |
| Employed                        |     |
| • Campus selection              | Nil |
| • Other than campus recruitment | Nil |
| Entrepreneurs                   | Nil |

**36. Diversity of staff**

| <b>Faculty who are</b>                   | <b>Percentage</b> |
|--|-------------------|
| graduates of the same university         | 00                |
| from other universities within the State | 100               |
| from universities from other States      | 00                |
| from universities outside the country    | 00                |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 02**

- Dr. P. K. Jena (awarded Ph.D. in 2014)
- Dr. I. Nayak (awarded Ph.D. in 2014)

**38. Present details of departmental infrastructural facilities with regard to**

**a) Library**

- We access books from Central Library

**b) Internet facilities for staff and students**

- Four LAN connection has been provided to four faculty members. One PhD students is provided an extension to LAN connection.

**c) Total number of class rooms : One**

**d) Class rooms with ICT facility**

- The department has LCD projector to facilitate for ICT.

**e) Students' laboratories**

- Two (On share basis with CSE Department).

**f) Research laboratories : Nil**

**39. List of doctoral, post-doctoral students and Research Associates**

**a. From the host institution/university : Nil**

**b. From other institutions/universities**

| <b>Sr. No.</b> | <b>Name of the Research Students (Continuing Doctoral Degree)</b> | <b>Name of Title</b>  | <b>Name of Guide</b> |
|----------------|---|---|----------------------|
| 1.             | Manas Ranjan Mishra   | Computing Riesz basis from B-spline Wavelet frames                                  | Dr. M. K. Jena       |
| 2.             | Khama Sagar Sahu  | Frame operational matrices and their applications in solving differential equations | Dr. M. K. Jena       |
| 3.             | Pramod Kumar Behera   | Second order symmetric duality of variational problems with generalized invexity    | Dr. S. K. Padhan     |
| 5.             | Subigyan Gadtia   | Yet to be finalized   | Dr. S. K. Padhan     |
| 6.             | Joydev Dasmohapatra   | Yet to be finalized   | Dr. S. K. Padhan     |
| 7.             | Bidu Bhusan Jena  | Yet to be finalized   | Dr. S. K. Paikray    |

**40. Number of post graduate students getting financial assistance from the university.**  
: Nil

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes**

- Draft Syllabus in Departmental meeting
- Inputs and Information from stake holders like alumini and industries and reputed institutions.
- Demand of the subject in the market
- Board of studies meeting for formulation of the syllabus
- Approve of syllabus in Academic council of the University

**42. Does the department obtain feedback from**

**i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes**

Faculty members are involved in preparation of syllabus, evaluation of answer scripts and teaching learning process. Departmental meetings are conducted before starting of Board of studies meeting in preparation of syllabus. We are showing semester answer scripts after evaluation to students in order to maintain transparency in evaluation process. The Department take inputs from the faculty members regarding changes in curriculum from time to time. The teaching learning and evaluation process are discussed in the departmental meetings. The senior faculty members shares their experiences in the Department with all the faculty members.

**ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

- The students are given opportunity to express their views on curriculum, syllabus and teaching learning process.
- The students give their feedback at regular intervals about the course content,

teaching learning process and evaluation process.

**iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The department conducts regular meeting consisting of the stakeholders like staff, students, parents, employers and look into these matters. Yearly two meetings of the stakeholders are conducted to give their inputs. The suggestions are incorporated as improvement/modification in the curriculum.

**43. List the distinguished alumni of the department (maximum 10)**

The department of mathematics is a supportive department of UG programmes of all branches. MSc is shortly opened and First batch of MSc will pass in June 2015.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Departmental seminars/ Special lectures are organized in the university from time to time to strengthen skill of faculty and students.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Based on experience following teaching methods are adopted by the faculty members.
- Brain storming
- Role play
- LCD presentation
- NPTEL video slide show
- Short seminars
- Lesson plans and Lecture notes are prepared.
- Lecture notes are digitalized and hosted in University website for the benefit of students.
- Regular assignments are given to students and their performance is monitored.
- For slow learners and weak students remedial classes are being conducted.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Continuous evaluation of students, interaction with the faculty members, seminars, midsem examination, assignments, Lab tests, viva voce tests and quizzes are monitored.

**47. Highlight the participation of students and faculty in extension activities.**

Students have participated in N.S.S., Yoga, Literary competitions, tech fest (Samavesh) are organized in inter and intra departmental activities like song competitions, dance competition, robotics competition, drama, technical quiz and technical paper presentation.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

In each paper some topics are being taught beyond syllabus. Some problems beyond syllabus are also solved in the classes. Departmental seminars are organized to strengthen skill of faculty and students. The students are encouraged to participate and present papers in National / international Seminar, conferences/ workshops.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

We are supporting UG department. NBA accreditation is not applicable.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Imparting mathematical knowledge to Engineering branches
- Encouraging higher studies in Mathematics
- Encouraging inter-disciplinary research
- Prof. J.P. Panda is working as Editorial board member of International Journal of Dynamics of Fluids and Editorial board member of International Journal of Theoretical and Applied Mechanics.
- Prof. J.P. Panda is working as reviewer of following International Journals
  - International journal of numerical methods in fluid.
  - Modelling, Measurement and Control, France,
  - Applied Mathematics and Computation, Elsevier
  - Indian Journal of Science and Technology
  - International Conference of Computational Intelligence in Data Mining, Dec 2014
- Dr. M.K. Jena is served as a reviewer of the international journal CAGD.
- Prof. J.P.Panda and Dr. M.K. Jena have worked as Organising Committee members of International Conference of Computational Intelligence in Data Mining, Dec 2014.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- Eco-friendly and amicable working atmosphere
- Highly qualified and experienced faculty members with more number of doctorates and actively engaged in guiding research, presenting papers in national/ international conference, reviewing papers of reputed international journals and writing books/ book chapters.
- First preferred choice in the state of Odisha.
- Student participation in various activities to enhance their interpersonal and leadership qualities
- Conducive environment for teaching-learning .
- Social welfare programme organized by the students.
- Student participation in various co-curricular and extra-curricular activities
- Good percentage of placement record
- Globally update industry oriented curriculum.



**Weakness:**

- Faculty exchange programme
- Student exchange programme
- Far away from the airport
- Additional space for expansion of class rooms and department
- Industry sponsored chair professors.

**Opportunities:**

- Potential to contribute to economic development of region and consultancy for sick industries in the periphery of the University
- Introduction of more innovative programmes
- Credit accumulation and transfer facilities
- Curriculum and syllabus can be updated regularly to meet the ever changing industry requirements
- More scope for interdependent and interdisciplinary projects
- Collaboration with industries , Indian/ foreign universities for research and faculty exchange programme.

**Challenges:**

- Collaboration with foreign universities to promote study abroad and student exchange programme for the final year students
- Collaboration with foreign universities for faculty exchange programme
- Balancing administrative, academic, Research and consultancy work
- Inculcate ethical values in the mind of students.

**52. Future plans of the department.**

- To open integrated M.Sc. Course in Mathematics from the session June 2015-2016 (5 Year Course after +2 Science).
- The department will promote social relevant problems.
- The department will focus towards transformative research for other beneficiaries.

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department:** Humanities

2. **Year of establishment :** 1956

3. **Is the Department part of a School/Faculty of the university?**

It is a fully fledged department.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): UG, PG, Ph.D:**

It is a supporting department providing basic Humanities to the first year and second year students of UG, MCA and Integrated Masters.

5. **Interdisciplinary programmes and departments involved**

It provides the subject English for Communication to the first year students of B.Tech, MCA and Integrated Chemistry and the subject Engineering Economics and Costing, and Organisational Behaviour to the second year students of different branches of B.Tech, MCA and Integrated Chemistry.

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

The department is making collaboration with different universities like IIT Delhi, Utkal University, Sambalpur University for academic growth. It is already in the process of making collaboration with various universities for conducting workshop, seminar and conference in the field of humanities.

7. **Details of programmes discontinued, if any, with reasons:**

None such programmes were discontinued.

8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**

The university follows semester system.

9. **Participation of the department in the courses offered by other departments:**

The B.Tech departments of this university have included English For Communication in their First year and O.B & EEC in Second year respectively in all branches of B.Tech, MCA and Int. Chemistry

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

The sanctioned faculty strength of the department is 06 (six). At present the department has 03 faculties. The department has already engaged 7 nos of faculties on contract basis for the smooth

functioning of the department. However advertisement has been made for the above mentioned posts.

| Posts               | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Professor           | 00         | 00     | 00                           |
| Associate Professor | 01         | 00     | 00                           |
| Assistant Professor | 05         | 03     | 00                           |

#### 11. Faculty profile with name, qualification, designation, area of specialization:

The department has at present 10 faculties; out of which 02 faculties are having PhD, 02 faculties submitted PhD thesis and rest are having M. Phil qualification. Others are pursuing Ph. D in the department and at other Universities like IITs, NITs.

| Name                   | Qualification                    | Designation             | Specialization   | No. of Years of Experience | No. of Ph.D. / M.Phil Students Guided/ Guiding for the last 5 years |
|------------------------|----------------------------------|-------------------------|--|----------------------------|---|
| Jayaprakash Paramguru  | Ph.D                             | Asst. Prof              | Linguistics and Translation                            | 9 Months                   | 01  |
| Ashapura Dash          | M.A, M. Phil, MBA                | Asst. Prof              | Linguistics and Indo English Writing                   | 5 years                    | Nil   |
| Diptimayee Nayak       | M. Phil, Ph.D (Thesis Submitted) | Asst. Prof              | Environmental Economics                                | 3 years                    | Nil   |
| Ankita Sarangi         | M.A, M. Phil                     | Asst. Prof(Contractual) | Non British Novels in English                          | Above 2 Years              | Nil   |
| Anil Bishi             | M.A, M. Phil                     | Asst. Prof(Contractual) | Comparative literature                                 | Above 3 years              | Nil   |
| Prakash Chandra Panda  | M.A, M. Phil, Ph.D               | Asst. Prof(Contractual) | Post Colonial Literature and Translation Studies       | 3 months                   | Nil   |
| Pramod Deep            | M.A, M.Phil                      | Asst. Prof(Contractual) | Translation Studies                                    | 3 Months                   | Nil   |
| Bharati Pujari         | MBA                              | Asst. Prof(Contractual) | Banking and Finance                                    | Above 3 years              | Nil   |
| Subhransu Sekhar Majhi | M. Phil, Ph.D (Thesis Submitted) | Asst. Prof(Contractual) | Social sector Development related to Human Development | 3 months                   | Nil   |
| Sukanta Patra          | MBA                              | Asst. Prof(Contractual) | Finance and HR   | 3 months                   | Nil   |

#### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

We have invited many professors of various universities for the academic growth of our department for seminar, workshop and conference. From them the faculty members are immensely benefitted. The list of professors along with their organization who visited the

department is furnished below:

| Sl No | Name                     | Organization  |
|-------|--------------------------|---|
| 1     | Prof Ram Shankar Nanda   | PG Department of English, Sambalpur University              |
| 2     | Prof Bijaya k. Tripathy  | PG Department of English, Sambalpur University              |
| 3     | Prof Biswajeet Sathpathy | Department of Business Administration, Sambalpur University |
| 4     | Prof B. S Baral          | Ex- Professor, Department of Humanities, VSSUT, Burla       |
| 5     | Prof P. K. Panda         | Retired Professor in Commerce, GM College, Sambalpur        |

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

UG: - 70% PG:- 30%

**14. Programme-wise Student Teacher Ratio:**

UG – 15:1 PG: 15:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

|                      | Sanctioned | Filled | Actual |
|----------------------|------------|--------|--------|
| Administrative Staff | 02         | 02     | 02     |
| Technical/Academics  | 00         | 00     | 00     |

**16. Research thrust areas as recognized by major funding agencies:**

This department is busy in doing research in areas like Banking and finance, finance and H.R, Post Colonial literature and Translation Studies, Non British Novels in English and Environmental Economics.

**17. Number of faculty with ongoing projects from**

- a) National: Nil
- b) international funding agencies: Nil
- c) Total grants received: Not Applicable

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration: We are in a process of collaborating with different universities of national repute.
- b) International collaboration: We are in a process of collaborating with different universities of international repute.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Not applicable for this department

**20. Research facility / centre with**

- **State recognition:** it is a state recognised university having research facility
- **National recognition:** In process
- **International recognition:** In process

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**

No

**22. Publications:**

- **Number of papers published in peer reviewed journals (national / international):**

The faculties have published 54 numbers of journals and 61 numbers of conference proceedings during last five years.

| SI No. | Name of faculty | Publications |               |                        |               |
|--------|-----------------|--------------|---------------|------------------------|---------------|
|        |                 | Journals     |               | Conference Proceedings |               |
|        |                 | National     | International | National               | International |
| 1      | J.P Paramguru   | 04           | 04            | 00                     | 00            |
| 2      | A Dash          | 00           | 00            | 00                     | 00            |
| 3      | D Nayak         | 00           | 01            | 02                     | 02            |
| 4      | P Panda         | 03           | 02            | 00                     | 00            |
| 5      | A Sarangi       | 00           | 00            | 00                     | 00            |
| 6      | B Pujari        | 00           | 00            | 03                     | 00            |
| 7      | A Bishi         | 00           | 00            | 00                     | 00            |
| 8      | S Majhi         | 00           | 00            | 00                     | 00            |
| 9      | S Patra         | 00           | 00            | 00                     | 00            |

- **Monographs:** NIL
- **Chapter in Books:** 01
- **Books Edited:** NIL
- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Books with ISBN/ISSN numbers with details of publishers:** 02

| Name of the Book | Title of the Journal | Vol. | Issue | Year | Page No | ISSN/ISBN |
|------------------|----------------------|------|-------|------|---------|-----------|
|                  |                      |      |       |      |         |           |

|   |  |  |  |      |       |                         |
|---|--|--|--|------|-------|-------------------------|
| Sarala Devi (Book to be published by OUP in December, 2014), Edited by Prof. Sachidananda Mohanty, Central University, Hyderabad. | “The Role of Women in Freedom Struggle” and “Odia Women of the Future” |  |  | 2014 |       |                         |
| Scholars Press, Germany (Book)  | Terry Eagleton’s Plays: A Stylistic approach                           |  |  | 2014 | 1-176 | ISBN-13: 978-3639710229 |

- **Citation Index – range / average :**
- **SNIP: NIL**
- **SJR: NIL**
- **Impact Factor – range / average:**
- **h-index :**

**23. Details of patents and income generated:**

Nil

**24. Areas of consultancy and income generated:**

Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:**

- Mrs. A. Dash selected in British council training
- Mrs. A. Dash selected for commonwealth scholarship

**26. Faculty serving in**

- a) **National committees: 05**
- b) **International committees: 03**
- c) **Editorial Boards: 02**
- d) **any other (please specify): Nil**

**27. Faculty recharging strategies: Seminar, Conferences, workshop and short-term courses; Strategies attended for year 2010 to 2015;**

**28. Student projects**

- Percentage of students who have done in-house projects including inter-departmental projects: As this is a supporting department to the technical departments however presentation on some socio economic topics are done in the language laboratory
- Percentage of students doing projects in collaboration with other universities/ industry/ institute:- As this is a supporting department to the technical departments no such

projects have been done.

**29. Awards / recognitions received at the national and international level by :**

- **Faculty:** Nil
- **Doctoral / post doctoral fellows:** Nil
- **Students:** Nil

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) for year 2010 to 2015:**

Nil

**31. Code of ethics for research followed by the departments:**

This year Ph. D programme has been introduced under this department. Plagiarism software has been introduced for maintenance and purity of research work.

**32. Student profile programme-wise:**

Not Applicable for this department.

**33. Diversity of students**

Not Applicable for this department.

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Not Applicable for this department.

**35. Student progression**

Not Applicable for this department.

**36. Diversity of staff**

|  |      |
|--|------|
| Percentage of faculty who are graduates of the same university                   | NIL  |
| Percentage of faculty who are graduates from other universities within the State | 100% |
| Percentage of faculty who are graduates from universities from other States      | NIL  |
| Percentage of faculty who are graduates from universities outside the country    | NIL  |

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:**

Ph. D:- 02

M. Phil:- 07

**38. Present details of departmental infrastructural facilities with regard to**

- a) **Library:** We access books from central library
- b) **Internet facilities for staff and students:** Yes
- c) **Total number of class rooms:** 01 Language Lab
- d) **Class rooms with ICT facility:** LCD facility is provided
- e) **Students' laboratories:** 01
- f) **Research laboratories:** 01

**39. List of doctoral, post-doctoral students and Research Associates**

- (a) **from the host institution/university :** 01
- (b) **from other institutions/universities:** Nil

**40. Number of post graduate students getting financial assistance from the university.**

Post graduate programme is not provided under this department.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

The following steps are taken before the development of new programme:-

- Departmental meeting
- Draft syllabus is prepared
- Presented in the Board of Studies
- After the approval from BOS and Academic Council the programme is implemented

**42. Does the department obtain feedback from**

- a. **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

It is done by conducting meeting with the students and the feedback is utilised in syllabus redesigning.

- b. **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

The department gets feedback by discussion method both formally as well as informally from the students. The necessary changes are discussed in the departmental meeting and steps are taken to improvise.

- c. **Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The department gets feedback from different industries, parents of the students studying



here and surrounding people. Keeping their feedback in view curriculum is redesigned from time to time to cater the need of the society.

**43. List the distinguished alumni of the department (maximum 10)**

This is a supporting department so this is not applicable

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

The Department conducts seminar, workshop and conference for the benefit of the students from time to time. Pre-Placement training is also given through this department.

**45. List the teaching methods adopted by the faculty for different programmes.**

The following teaching methods are adopted by the faculty members for different programmes:

- Student participation method
- Power point presentation
- Role Play
- Simulation
- Group Discussion
- Quiz
- Games
- Digital Notes

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Internal assessment
- Quiz
- Classroom assignment
- Semester Evaluation

By analysing different parameter of the above objectives are checked and accordingly learning outcomes are monitored

**47. Highlight the participation of students and faculty in extension activities.**

- Literary Society
- Dramatic society
- VSSAUNT
- Blood donation camp
- NSS
- NCC
- Sports

- Tech Fest

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Fair Faculty seminar
- Exhibition
- Book Fair
- Motivational Speech

**49. State whether the programme/ department is accredited/ graded by other agencies?**

It is a supporting department for the technical university which gets accredited by NAAC and UGC

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department helps in generating new knowledge in the field of

- Language
- Literature
- Sociology
- Psychology
- Economics
- Management

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**STRENGTH:**

- Well- Experienced faculty members
- Well equipped lab
- Research expertise in different areas like translation studies, post colonial studies, banking and finance
- Active student participation in curricular activities
- Best students of Orissa prefer this institution

**WEAKNESS:**

- Lack of Space
- Long Distance from Airport
- Vacancy of teaching posts

**OPPORTUNITIES:**

- Opening of new courses
- Industry supported lab
- New Research work
- Filing Patent

**CHALLENGES:**

- To match with the international standard
- To upgrade lab to a state of art lab
- To deal with Modern Trends in Humanities

**52. Future plans of the department.**

- Extension of language lab
- Education and social responsibility
- Personality development
- To start Ph. D programme in Management
- To start Electives

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department :** Department of MCA
2. **Year of establishment :** The Department of MCA was established in the year of 1993
3. **Is the Department part of a School/Faculty of the university?**

Yes, the department is independent under the University.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., D.Sc., D.Litt., etc.) :** PG

| Sl. No. | Programmes                     | Year of Commencement | Initial sanctioned Student Intake | Current sanctioned Student Intake |
|---------|--------------------------------|----------------------|-----------------------------------|-----------------------------------|
| 1.      | Master of Computer Application | 1993                 | 30                                | 30                                |

5. **Interdisciplinary programmes and departments involved:** Yes

The following interdisciplinary courses are offered by other departments of the university in the PG programme are:

| Sl. No. | Interdisciplinary Courses           | Credit | Semester        | Department involved |
|---------|-------------------------------------|--------|-----------------|---------------------|
| 1       | Discrete Mathematics                | 4      | 1 <sup>st</sup> | Mathematics         |
| 2       | Engineering Economics and Costing   | 4      | 1 <sup>st</sup> | Humanities          |
| 3       | Numerical Methods                   | 4      | 2 <sup>nd</sup> | Mathematics         |
| 4       | English for Communication           | 4      | 2 <sup>nd</sup> | English             |
| 5       | Financial and Management Accounting | 4      | 3 <sup>rd</sup> | Humanities          |

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

The faculty members of the department are involved in development of course contents, design of syllabus, supervision of MCA project work and teaching of post graduate courses as visiting faculty and guest faculty in other universities and institutions. The faculty members are also involved actively in various industry-institute collaborative programs and projects. The following faculty members from other universities and industry persons have collaborated in various capacities in academic and research activities of the department.

**Academia:**

Texas A&M University USA, NUS Singapore, NTU Singapore, MIR Lab USA, University of Canberra, Australia, IIT Kharagpur, IIT Bhubaneswar, IIT Madras, IIT Delhi, ISI Kolkata, IISc Bangalore, NIT Goa, Central University Hyderabad, BIT Mesra, NIT Rourkela, G. G. University Chhattisgarh, CEERI Rajasthan, Kalyani University Nadia, IGIT Sarang, CET Bhubaneswar, SOA University Bhubaneswar, Sambalpur university, Utkal University, Berhampur University, Biju Patnaik University of Technology Rourkela.

**Industries:**

Infosys Bhubaneswar, Wipro Bangalore Pune Hyderabad, TCS Bhubaneswar Mumbai Kolkata Trivandrum, Accenture Kolkata, Simav Solutions Pvt. Ltd. Pune, Mahindra Satyam Bhubaneswar

**7. Details of programmes discontinued, if any, with reasons: -NIL -**

No such programmes have been discontinued.

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System : Semester**

The Examination System is Semester based. The department offers courses where the students have the choice of selecting professional and open electives in their courses based on their interest along with the Core subjects. The Choice Based Credit System (CBCS) is going to be implemented by the University from the academic session 2015-16.

| PG(MCA Programme) |  |
|-------------------|--|
| Semester          | Credit                                   |
| 1 <sup>st</sup>   | 28                                       |
| 2 <sup>nd</sup>   | 28                                       |
| 3 <sup>rd</sup>   | 28                                       |
| 4 <sup>th</sup>   | 28                                       |
| 5 <sup>th</sup>   | 28                                       |
| 6 <sup>th</sup>   | 20(Industrial project work for 16 weeks) |

**9. Participation of the department in the courses offered by other departments:**

The faculty members of the department are actively teaching the courses for the MCA students solely. The department does not participate in teaching the courses of other departments.

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

| MCA                  | Sanctioned | Filled | Actual (including CAS & MPS) |
|----------------------|------------|--------|------------------------------|
| Professor            | 01         | 00     | Nil                          |
| Associate Professors | 02         | 00     | Nil                          |
| Asst. Professors     | 04         | 04     | Nil                          |
| Others               | 01         | 01     | Nil                          |

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

| Sl. No. | Name                  | Qualification | Designation                        | Specialization  | Experience | MCA Project Guidance |
|---------|-----------------------|---------------|------------------------------------|---|------------|----------------------|
| 01      | Dr. M. R Kabat        | Ph.D          | Assistant Professor & Head, CSE&IT | Internet & Quality of Service, Computer Algorithm, Real-Time Systems, Artificial Intelligence | 14         | 10                   |
| 02      | Dr. H.S. Behera       | Ph.D          | Assistant Professor                | Data Mining & Soft Computing  | 15         | 10                   |
| 03      | Mr Sanjib Kumar Nayak | M.Tech        | Asst. Professor                    | Information retrieval, Data mining, Software Engineering                                      | 4          | 25                   |

|    |                     |        |                 |                   |   |    |
|----|---------------------|--------|-----------------|-------------------|---|----|
| 04 | Mrs Sasmita Acharya | M.Tech | Asst. Professor | Computer Networks | 4 | 20 |
| 05 | Mrs Etuari Oram     | M.Tech | Asst. Professor | Computer Networks | 3 | 15 |
| 06 | Mr Bighnaraj Naik   | M.Tech | Asst.Professor  | Data Mining       | 3 | 15 |

### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

The following is the list of eminent faculty members of national and international repute who have visited the department:

| Name of Senior Visiting Faculties | Organization                      |
|-----------------------------------|-----------------------------------|
| Prof. G. Panda                    | IIT, Bhubaneswar                  |
| Prof. P. K. Dash                  | SOA University, Bhubaneswar       |
| Prof. G. Sahu                     | BIT, Mesra                        |
| Prof. A. K. Saxena                | G. G. University, Chattisgarh     |
| Prof. B. Majhi                    | NIT, Rourkela                     |
| Prof. S. K. Jena                  | NIT, Rourkela                     |
| Prof. R. K. Chhotray              | NIT, Rourkela                     |
| Prof. S. K. Rath                  | NIT, Rourkela                     |
| Prof. P. K. Patra                 | CET, Bhubaneswar                  |
| Prof. S. N. Mishra                | IGIT, Sarang                      |
| Prof. S. K. Panda                 | NUS, Singapore                    |
| Prof. A. Abraham                  | MIR Lab, USA                      |
| Prof. D. Sharma                   | University of Canberra, Australia |
| Prof. J. K. Mandal                | Kalyani University, Nadia         |

### 13. Percentage of classes taken by temporary faculty – programme-wise information:

| Sl No. | Programmes                     | %classes taken by temporary faculty |               |
|--------|--------------------------------|-------------------------------------|---------------|
|        |                                | Odd Semester                        | Even Semester |
| 01.    | Master of Computer Application | 10                                  | 00            |

### 14. Programme-wise Student Teacher Ratio

For MCA programme, the Student Teacher Ratio is **18 : 1** as there are 30 students in each year for total of 3 years and currently there are 4 numbers of permanent faculty members who are working as Assistant Professors in the department.

| Sl No | Programmes Offered  | Student Teacher Ratio |
|-------|---------------------|-----------------------|
| 01    | Post-Graduate (MCA) | 18:1                  |

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

| MCA                 | Sanctioned | Filled | Actual (including CAS & MPS) |
|---------------------|------------|--------|------------------------------|
| Technical Assistant | 00         | 00     | Nil                          |
| Junior Instructors  | 00         | 00     | Nil                          |
| Lab attendant       | 00         | 00     | Nil                          |
| Office assistant    | 00         | 00     | Nil                          |
| Peon                | 01         | 01     | Nil                          |

**16. Research thrust areas as recognized by major funding agencies :**

The faculty members are actively engaged in the following thrust areas of research:

| Research areas   | Funding agencies        |
|--|-------------------------|
| Wireless Sensor Network / Data Mining / Machine Intelligence | AICTE/DST/UGC/ISRO/DRDO |

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise : - NIL -**

**18. Inter-institutional collaborative projects and associated grants received:**

| Inter-institutional collaborative projects |   |            |  |
|--|---|------------|--|
| (a)  | National Collaboration                        | Date       | Purpose  |
| 1  | Infosys Ltd., Bangalore                       | 21.06.2014 | This MOU is for collaboration between both parties, for mutual benefit, to enhance the quality of the educational experience of students.  |
| 2  | NI System (India) Pvt. Ltd., Hobli, Bangalore | 26.06.2014 | Encouraging engineers from industry to visit Industry Institution Interaction Cell (IIIC) to deliver lectures;<br>Participating of experts from industry in IIIC curriculum development;<br>Visits of Faculty Member to industry;<br>Industrial Testing;   |
| 3  | SKF India Ltd., Chinchwad, Pune               | 14.07.2014 | In view of the challenging environment and the need to provide students with better learning opportunities it is essential to form more industry-academic partnerships. Such an initiative provides students with excellent learning opportunities and helps in disseminating knowledge.                                       |
| 4  | Tech Mahindra, Pune                           | 13.08.2014 | Tech Mahindra and VSSUT are contemplating to enter into a long term mutually beneficially relationship in line with vision of Industry academic collaboration in areas of academic and technical exchange, to develop academic and scientific relationships, and in support of collaborative research and training activities. |
| (b)  | International Collaboration                   | Date       | Purpose  |
| 1  | Institute National                            |            | Formalise cooperation in the development of research and training in fields of mutual interest through the activities of the UNESCO Chair  |

|  |            |         |
|--|------------|---------|
| Research Scientific (INRS), Quebec, Canada | 12.09.2014 | MATECSS |
|--|------------|---------|

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:** - NIL -

**20. Research facility / centre with:**

- **State recognition:** The Govt. of Odisha has recognized the department as centre of learning cum academic research and sanctioned grant for the development and upgradation of all the laboratories of the department.
- **National recognition:** The department has well equipped laboratories which provide state of the art facilities to the post graduate students from across the country.
- **International recognition:** The faculty members of the department are involved in emerging and advanced areas of research work and are in the process of collaborating with eminent faculties of reputed foreign universities. In addition, the department has organized international conference and invited eminent professors from foreign universities to strengthen professional and research collaborations with their active involvement as key note speakers / conference chairs / programme committee members / advisory board / tutorial speakers and chairs etc. Many graduated students of the department are working abroad and throughout the globe in reputed organizations like Microsoft, Apple, Yahoo, ORACLE, Morgan & Stanley, HP, IBM.

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

The department is in the process of associating industries and corporate bodies by organizing training programs for students and faculties of the department and also in the process of signing MoUs with industries and corporate bodies to setup research laboratories.

**22. Publications:**

**Number of papers published in peer reviewed journals (national / international)**

| Faculty Name   | National | International |
|----------------|----------|---------------|
| Mr. S K Nayak  | 0        | 0             |
| Mrs. S Acharya | 1        | 0             |
| Mrs. E Oram    | 0        | 0             |
| Mr. B Naik     | 0        | 8             |

**Number of papers published conferences (national / international)**

| Faculty Name   | National | International |
|----------------|----------|---------------|
| Mr. S K Nayak  | 0        | 2             |
| Mrs. S Acharya | 0        | 2             |
| Mrs. E Oram    | 0        | 0             |
| Mr. B Naik     | 1        | 11            |



### Edited Books and Chapters in Books

| Faculty Name   | Book | Book Chapters |
|----------------|------|---------------|
| Mr. S K Nayak  | 0    | 0             |
| Mrs. S Acharya | 0    | 0             |
| Mrs. E Oram    | 0    | 0             |
| Mr. B Naik     | 0    | 8             |

Citation Index – range / average: 3- 50 (range) 30(average)

Impact Factor – range / average : 0.5- 2.5 (range) 0.9(average)

h-index : 1-8 (range) 4 (average)

### 23. Details of patents and income generated:

Students and faculty members are trained and involved in various projects such as development of models, prototypes, processes and innovative products. Some of the innovative ideas are in the process of filing of patents in future.

### 24. Areas of consultancy and income generated:

Web design and maintenance along with software development for departmental activities.

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Faculty visit to Laboratories/Institutions/Industries   |
|---|
| <b>Mr. S. K. Nayak</b><br>IIT Kharagpur, NIT Rourkela, CET Bhubaneswar, KIIT Bhubaneswar, Govt. Engineering College, Amravati, Osmania University, Hyderabad, SVNIT Surat, Utkal University Bhubaneswar, IIT Guwahati, Tezpur University Assam, NIST Berhampur, GRIET Hyderabad, Sambalpur University Sambalpur, SUIIT Sambalpur, GVPCOE Vizag, HVPMCOET Nagpur, NERIST Arunachal Pradesh, ADBU Guwahati, SOA Bhubaneswar |
| <b>Mrs. S. Acharya</b><br>CSI Vizag, JNTU Hyderabad   |
| <b>Mr. B. Naik</b><br>NIST Berhampur, NIT Rourkela, KIIT Bhubaneswar, SOA Bhubaneswar, JNTU Hyderabad, CEB Bhubaneswar  |
| <b>Mrs. E. Oram</b><br>NIT Rourkela, KIIT Bhubaneswar, SOA Bhubaneswar, GVPCOE Vizag  |

### 26. Faculty serving in : a) National committees b) International committees c) Editorial Boards d) any other (please specify):

#### a) National committees

| Faculty serving in National Committees :  |
|---|
| <b>Mr. S K Nayak</b> <ul style="list-style-type: none"><li>Chairman Department Academic Committee, MCA Department, VSSUT, Burla</li><li>Chairman BOS, Conducting Board, MCA Department, VSSUT, Burla</li><li>Member of Academic Council, Moderation Board, Disciplinary Committee.</li><li>Life Member of ISTE, IAENG</li></ul> |
| <b>Mr. B Naik</b> <ul style="list-style-type: none"><li>NAAC Committee Member.</li></ul>  |

|   |
|---|
| <ul style="list-style-type: none"> <li>• NBA Co-ordinator.</li> <li>• Member, Conducting Board, MCA Department, VSSUT, Burla</li> <li>• Member, Moderation Board, MCA Department, VSSUT, Burla</li> <li>• Faculty Advisor, VASSAUNT-15, VSSUT, Burla</li> <li>• Member, Department Academic Committee, MCA Department, VSSUT, Burla</li> </ul>          |
| <p><b>Mrs. S Acharya</b></p> <ul style="list-style-type: none"> <li>• NAAC Committee Member.</li> <li>• NBA Co-ordinator.</li> <li>• Member, Conducting Board, MCA Department, VSSUT, Burla</li> <li>• Member, Moderation Board, MCA Department, VSSUT, Burla</li> <li>• Member, Department Academic Committee, MCA Department, VSSUT, Burla</li> </ul> |
| <p><b>Mrs. E Oram</b></p> <ul style="list-style-type: none"> <li>• NAAC Co-ordinator.</li> <li>• NBA Committee Member.</li> <li>• Member, Conducting Board, MCA Department, VSSUT, Burla</li> <li>• Member, Moderation Board, MCA Department, VSSUT, Burla</li> <li>• Member, Department Academic Committee, MCA Department, VSSUT, Burla</li> </ul>    |

b) **International committees:** -NIL-

c) **Editorial Boards:** -NIL-

d) **any other (please specify)**

| <b>Faculty serving in other committees :</b>  |
|---|
| <p><b>Mr. S K Nayak</b></p> <ul style="list-style-type: none"> <li>• Co-Ordinator, MCA Department, VSSUT, Burla</li> <li>• Assistant Warden, Angira Hall of Residence, VSSUT, Burla</li> <li>• Departmental Academic committee member</li> <li>• Chairman, BOS and Conducting Board at VSSUT, Burla</li> <li>• Member, Academic Council, VSSUT, Burla</li> <li>• Question setter and Answer script evaluators for many Universities.</li> <li>• Faculty Advisor, MCA Students Society, VSSUT, Burla</li> <li>• Member, Departmental purchase committee, Dept. of MCA, VSSUT, Burla</li> <li>• Department Seminar in-charge, VSSUT</li> <li>• Faculty Coordinator in T&amp;P for Department of MCA</li> <li>• Convenor, ADHRIT-2014,15.</li> <li>• Co-ordinator, ADHRIT-13.</li> <li>• Vice-President, NSS Cell(13-14), VSSUT, Burla</li> <li>• Faculty in-charge, Department library, VSSUT, Burla</li> </ul> |
| <p><b>Mr. B Naik</b></p> <ul style="list-style-type: none"> <li>• Co-ordinator, ADHRIT-15, VSSUT, Burla.</li> <li>• Departmental Academic committee member</li> <li>• Time Table I/C, Dept. of MCA, VSSUT, Burla</li> <li>• Member of Departmental Purchase committee</li> </ul>  |
| <p><b>Mrs. S Acharya</b></p> <ul style="list-style-type: none"> <li>• Co-ordinator, ADHRIT-14, VSSUT, Burla.</li> <li>• Departmental Academic committee member</li> <li>• Time Table I/C 2014, Dept. of MCA, VSSUT, Burla</li> <li>• Member of Departmental Purchase committee</li> <li>• Assistant Warden, Vishakha Hall of Residence, VSSUT, Burla</li> </ul>   |

**Mrs. E Oram**

- Departmental Academic committee member
- Assistant Warden, Arundhati Hall of Residence, VSSUT, Burla
- Member of Departmental Purchase committee

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

| Sl. No | Programme  | Date                 | Faculty Name |
|--------|--|----------------------|--------------|
| 01     | RTAC 2013  | 29-04-13 to 11-05-13 | S K Nayak    |
| 02     | RTAC 2013  | 29-04-13 to 11-05-13 | B Naik       |
| 03     | RTAC 2013  | 29-04-13 to 11-05-13 | S Acharya    |
| 04     | RTAC 2013  | 29-04-13 to 11-05-13 | E Oram       |
| 05     | Neural Networks, GVPCE, Vizag  | 04-11-13 to 16-11-13 | S K Nayak    |
| 06     | Neural Networks, GVPCE, Vizag  | 04-11-13 to 16-11-13 | E Oram       |
| 07     | Green Technology, HVPCE, Amravati                                    | 21-04-14 to 25-04-14 | S K Nayak    |
| 08     | Experimental Designs for Optimization, Osmania University, Hyderabad | 19-05-14 to 24-05-14 | S K Nayak    |

**28. Student projects**

i) Percentage of students who have done in-house projects including inter-departmental projects : 0%

ii) Percentage of students doing projects in collaboration with other universities/industry/institute: 100%

100 % of MCA students (6<sup>th</sup> semester) are doing industrial projects in the Software Industries as part of their academic curriculum which is of 6 weeks duration and has a credit of 20.

**29. Awards / recognitions received at the national and international level by**

i) Faculty: NIL

ii) Doctoral/Post doctoral fellows: NIL

iii) Students: NIL

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

| Sl.No | Event Organized                          | Name of the Event  | Date of event                                     | No of Participants |
|-------|--|--|---|--------------------|
| 1     | Workshop on C programming and C Marathon | ADHRIT 2k13 in collaboration with Lakshya Technologies, BBSR | 23 <sup>rd</sup> and 24 <sup>th</sup> March, 2013 | 100                |

|   |   |  |   |     |
|---|---|--|---|-----|
| 2 | Workshop on Web Technology  | ADHRIT 2k14 in Collaboration with VSSUT Web development team | 16 <sup>th</sup> May, 2014                          | 200 |
| 3 | International conference on computational intelligence in data mining | ICCIDM-2014  | 20 <sup>th</sup> – 21 <sup>st</sup> December , 2014 | 250 |

### 31. Code of ethics for research followed by the department:

#### Contribute to society and human well being.

- This principle concerns the quality of life of all people, and affirms an obligation to protect fundamental human rights and respect the diversity of all cultures.
- Respect the rights of peers, faculty, staff, and visitors to the university.
- Respect the diversity inherent in their own and others' cultures.
- Reflect respect for others, their cultures, and the natural environment in project work.

#### Avoid harm to others.

- Treat facilities and equipment items carefully, as many others also need to utilize them.
- Utilize equipment for academic purposes only.
- Ensure that one's actions, conversations, programs, software or processes create no undesirable loss of information, loss of property, property damage, or environmental impact.
- Avoid creating or propagating computer viruses or other harmful mechanisms by which there could be serious loss of resources or expenditure of resources in recovery.
- Report any potential dangers observed in existing systems.

#### Be honest and trustworthy.

- Speak the truth.
- Represent accurately one's personal level of competence.
- Make full disclosure of pertinent information limitations and problems with projects or assignments.
- Honor commitments to peers, faculty, and staff.
- Communicate issues to appropriate personnel with the objective of resolving issues positively, with dignity for all concerned.

**Be fair and take action not to discriminate.**

**Honor property rights including copyrights and patents.**

- Utilize software that is properly authorized: public domain, or properly licensed from the owner of the software.

**Give proper credit for intellectual property.**

- Give appropriate credit when utilizing others' work (program, algorithm, idea developed by another, quotation) whether it is work from peers, faculty, or published material. Cite the authors clearly in the documentation.
- In those instances where team projects are allowed, each individual's contribution must be significant and be identified.

**Respect the privacy of others.**

- When dealing with data concerning individuals, one shall always adhere to the principles of individual right to privacy.
- When faced with the ability to access personal information, avoid reviewing more data than necessary.
- Avoid collecting more of an individual's personal data than necessary for any particular application.
- Restrict access to personal data to those who have a legitimate need to access it.
- When developing computer systems, restrict information to those with a legitimate need to know.

**Honor confidentiality.**

- Be careful to treat personal data as confidential when developing or working with data systems.
- Restrict to essential personnel the sharing of others' personal information.

**Strive to achieve the highest quality, effectiveness and dignity in both the process and products of one's work.**

- Be diligent in seeking excellence in work, and be cognizant of the negative consequences that may result in poor quality in a computer system.

**Acquire and maintain professional competence.**

- A Computer Science researcher should strive to increase his/her competence and the competence and prestige of the profession.
- Be diligent in class work, striving for excellence.

- Take advantage of opportunities to expand knowledge (e.g., Workshops, symposia, etc)
- Be willing to aid others (especially beginners) without doing their work.

**Know and respect existing laws and regulations pertaining to computer work.**

- Obey public laws.
- Follow organizational policies/procedures.

**Accept and provide appropriate professional review.**

- Review and critique peer work.
- Accept review and critique of one's own work.

**Give comprehensive and thorough evaluations of computer systems and their impacts, including analysis of possible risks.**

- To the level that the student is viewed as knowledgeable about computers and systems, provide perceptive, thorough, and objective evaluations, recommendations of systems and their alternatives.

**Honor contracts, agreements, and assigned responsibilities.**

- Honoring commitments is a matter of integrity and honesty.
- Work diligently to complete contracts and fulfill responsibilities commitments and agreements. When difficulties arise, negotiate alternatives early.
- Communicate clearly and in a timely manner on progress toward completion of commitments (group projects, work projects, assigned responsibilities).
- Accept responsibility for one's own work.
- Accept only work or internships for which there is a reasonable expectation of completion.
- Complete assignments in a responsible and professional manner.

**Improve public understanding of computing and its consequences.**

- Be willing to extend public knowledge, understanding and appreciation of information processing.
- Oppose all false or deceptive statements relating to information processing.

**Access computing and communication resources only when authorized to do so.**

- Refuse to access any system or computer, software application, account or file for which express permission has not been given.

**32. Student profile programme-wise:** Five year data of MCA passed-out students are shown in the following table.

| Name of the Programme | Applications received  | Selected |        | Pass percentage |        |
|-----------------------|--|----------|--------|-----------------|--------|
|                       |  | Male     | Female | Male            | Female |
| MCA (2007-2010)       | More than 10000 applicants appear for MCA entrance each year | 21       | 09     | 100             | 100    |
| MCA (2008-2011)       |  | 21       | 09     | 100             | 100    |
| MCA (2009-2012)       |  | 20       | 09     | 100             | 100    |
| MCA (2010-2013)       |  | 21       | 09     | 100             | 100    |
| MCA (2011-2014)       |  | 19       | 09     | 100             | 100    |

**Diversity of students:**

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| MCA (2007-2010)       | 0                                      | 100  | 0   | 0                                  |
| MCA (2008-2011)       | 0                                      | 100  | 0   | 0                                  |
| MCA (2009-2012)       | 0                                      | 100  | 0   | 0                                  |
| MCA (2010-2013)       | 0                                      | 100  | 0   | 0                                  |
| MCA (2011-2014)       | 0                                      | 100  | 0   | 0                                  |

**33. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:**

| Sl No. | Name of the Competitive Exam | Year | Number of Students Cleared |
|--------|------------------------------|------|----------------------------|
| 01     | GATE                         | 2015 | 01                         |

**34. Student progression:**

| Student progression | Percentage against enrolled |
|---------------------|-----------------------------|
| UG to PG            | NIL                         |
| PG to M.Phil.       | NIL                         |

|  |     |
|--|-----|
| PG to Ph.D.  | NIL |
| Ph.D. to Post-Doctoral                                 | NIL |
| Employed   |     |
| <input type="checkbox"/> Campus selection              | 40% |
| <input type="checkbox"/> Other than campus recruitment | 50% |
| Entrepreneurs  | 10% |

**35. Diversity of staff:**

| Percentage of faculty who are graduate |    |
|--|----|
| Of the university                      | 25 |
| from other university within the state | 75 |
| from universities from other state     | 0  |
| from universities outside the country  | 0  |

**36. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :** -NIL-

**37. Present details of departmental infrastructural facilities with regard to**

**a) Library**

- Departmental library has collection of 150 books

**b) Internet facilities for staff and students**

- Department provides wired and wireless connectivity for accessing internet.

**c) Total number of class rooms**

| Room description      | Usage  | Shared/<br>exclusive | Capacity        | Rooms equipped with PC,<br>Internet, book rack, meeting<br>space, etc.   |
|-----------------------|--|----------------------|-----------------|--|
| No. of classrooms: 01 | Classroom for<br>1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup><br>year | Exclusive            | 55.74 sq.<br>m. | 20 seating benches, White/Black<br>board, internet facility, facility<br>for using projector, adequate<br>number of fans and lights. |

**d) Class rooms with ICT facility:**

One classroom with 20 seating benches, White/Black board, internet facility, facility for using projector, adequate number of fans and lights and internet facility, facility for using projector



**e) Students' laboratories:**

Windows lab: 30 computers with internet facility, fully loaded open source software's to facilitate all students to carry their course work. Well equipped with Online UPS.

**f) Research laboratories: -NIL-**

**38. List of doctoral, post-doctoral students and Research Associates:**

**a) from the host institution/university: -NIL-**

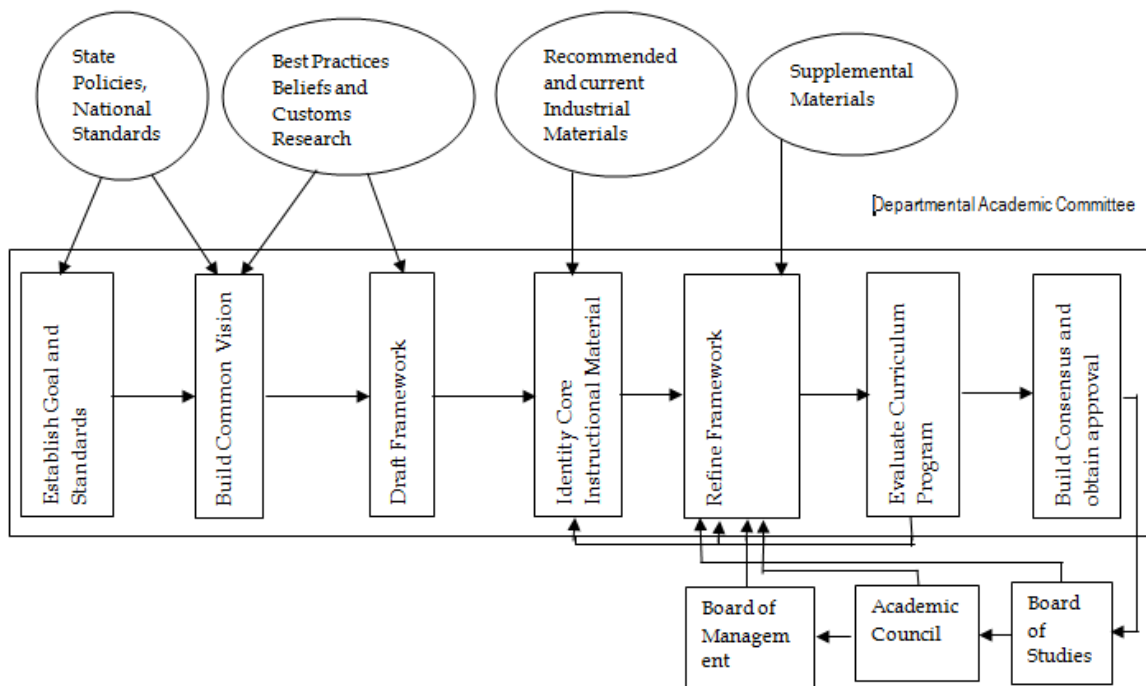
**b) from other institutions/universities: -NIL-**

**39. Number of post graduate students getting financial assistance from the university:**

No Financial assistance is provided to the MCA Students from the University.

**40. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

The department follows the then policies framed by Academic Council & Board of Studies. The detailed process is shown below:



- Whenever the new program is launched the justification for a new program in the assessment of the need is always considered.
- Based on the needs of the industries, the technology and the direction in which the current technologies are going collected through various magazines and personal discuss through the industry professionals. The new programs are conceded.

- The structure of the curriculum which includes the fundamental courses, professional elective courses to be introduced for the new program are discussed in the staff meeting conducted by Coordinator, MCA.
- The feedbacks from the faculties are taken in to consideration before finalizing structure of the new program.
- The curriculum and detail syllabi are placed before the BOS (Board of Study) of the department consisting of Faculty members of department, Academia and Industry experts.
- Then the curriculum and the detailed syllabi are forwarded to Academic Council meeting and finally gets approved by the Board of Management.

**41. Does the department obtain feedback from**

- a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

Yes, the department takes feedback from faculty and utilizes in:

- Identifying the changes needed to fill the academic gaps in the curriculum
- Identifying the need for including the new courses
- Identifying the pitfalls in the teaching learning process
- Strengthening the teaching learning process

- b) **students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Yes, The students give feedback at the end of every semester through a standard format that includes questionnaire on staff, curriculum and teaching learning process and evaluation. The Coordinator will appreciate as well as counsel the staff relevant to their feedback.

- c) **alumni and employers on the programmes offered and how does the department utilize the feedback?**

Yes, The feedback from the Alumni and employers are taken by the college to fill the gap between real time applications and the curriculum. The Professor-in-Charge, training and placement along with the departments reviews on the feedback taken from the employers and identify the, add on training courses to students.

**42. List the distinguished alumni of the department (maximum 10)**

| S.No. | Batch     | Name                   | Company         | Designation              |
|-------|-----------|------------------------|-----------------|--------------------------|
| 1     | 2006-2009 | BISHNU PRASAD TRIPATHY | HCL Technology  | System analyst           |
| 2     | 2006-2009 | SISIRA DAS             | TCS             | Programmer Analyst       |
| 3     | 2007-2010 | SATYA RANJAN GIRI      | TCS             | Software Engineer        |
| 4     | 2007-2010 | ABHILASH CHOUDHURY     | TCS             | Programmer Analyst       |
| 5     | 2008-2011 | MANOJA KUMAR BISWAL    | Mindtree Ltd    | Senior Software Engineer |
| 6     | 2008-2011 | ARUN SWAIN             | Mindtree Ltd    | Senior Software Engineer |
| 7     | 2009-2012 | SUMANTA KUMAR SAHU     | Tikkl           | Software Engineer        |
| 8     | 2009-2012 | MADHUSUDAN TANDI       | Govt. of Odisha | Teacher                  |
| 9     | 2010-2013 | SANJAYA KUMAR SAHU     | CRM IT          | Programmer Analyst       |
| 10    | 2010-2013 | SANTOSH PATTANAİK      | TCS             | System analyst           |

**43. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

With collaboration with the Training and Placement Cell, the following activities for enrichment of student knowledge

- 1) Personality Development Programs
- 2) Placement Assistance Programs
- 3) C Marathon – in collaboration with Lakshya Technologies (Expert – Mr. Susant K. Rout)

The Seminars/Workshops in detail are as follows:

| Name of speaker      | Designation and Organization                            | Topic  | Year |
|----------------------|---|--|------|
| Er. E. Satish. Reddy | Software Engineer, IBM Hyderabad                        | Blue Star  | 2015 |
| Prof. A. Abraham     | Director MIR labs USA                                   | Data+Evolution Representations= Intelligent information systems                                | 2014 |
| Prof. A.K. Mohanty   | IIT KGP   | Higher Studies and Research Oppertunities  | 2014 |
| Er. AtharSahab       | CEO, Vedanta Infrastructure, New Delhi                  | Enginnering and Managerial skill   | 2014 |
| Mr. Sujit Kumar      | Executive Director and founder KalingaKusuma Foundation | A Journey from UCE to Harward and Oxford University  | 2014 |
| Prof. B. B. Biswal   | NIT, Rkl  | Placement at VSSUT Burla   | 2014 |
| Er. J.P Nayak        | Vice President, Hindalco                                | Role of engineers in industry  | 2014 |
| Prof. D. Sharma      | University of Canberra, Australia                       | Knowledge Discovery for Computational Intelligence Research                                    | 2014 |
| P.K. Dash            | SOA, BBSR   | Swarm intelligence in Data Mining  | 2014 |
| Prof. G. Panda       | IIT, BBSR   | Computation Intelligence: Techniques and Applications  | 2014 |
| Prof. S. Mishra      | IIT, Delhi  | Computational intelligence in optimization methods   | 2014 |
| Prof. D. K.Pratihar  | IIT, KGP  | Intelligence Data Mining using computational intelligence                                      | 2014 |
| Prof. J. K. Mandal   | KalyaniUnivesity, Nadia                                 | Computational Intelligence; Techniques and Application Chaos based security and authentication | 2014 |

**44. List the teaching methods adopted by the faculty for different programmes.**

The following are the various content delivery methods considered in the program:

- Classes are conducted regularly as per time table.
- Black board teaching in class rooms.
- Power point presentations/Video lectures/OHPs are arranged to the students by the concerned faculty.
- Tutorial classes are conducted to improve the problem solving skills.
- Providing extra content to fill the gap between academic and industry.

- Conducting remedial classes for poor learners to improve their academic performance.
- Assignments are given to students based on the need of the topic.
- Easy access to the notes of each subject from concerned faculty.
- One Mid-Semester assessment test is conducted
- Providing extra lab practice to all the students to improve the practical skills along with regular curriculum.
- Encouraging the students to deliver a seminar on topic related to subject in the allotted period.
- Delivering staff seminars on advanced topics.
- Arranging workshops/guest lecturers to students by eminent personalities from academic institutions and
- Industry to enhance the knowledge of student.
- Involving the students in technical exhibition to develop the application of computer science.
- NPTEL lectures from IIT and other professors

**45. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The results of students in Mid semester exams, laboratory exams, end-semester exams and home assignments are analyzed and mapping of PEO's (Program Educational Objectives) and PO's (Program Outcomes) are carried out to ensure that programme objectives are constantly met and to monitor the learning outcomes.

- Mapping is made between Course outcomes and Programme Outcomes
- Mapping is made between Course objectives and Programme Educational Objectives

Compilation and Analysis of student's Feedback is done at the end of each semester.

**46. Highlight the participation of students and faculty in extension activities:**

- The college has National Service Scheme (NSS) is aimed at including a sense of national and social responsibility among the students to make them appreciate the dignity of labour for the welfare of rural and weaker sections of the society. This creates innumerable and invaluable opportunities to the students to apply their creative energy for social development.
- All these units have faculty advisers who guide student members in planning and executing various service activities. Students are free to choose their preferred activity.
- Encourage by Workshop/symposium/seminar utilize by the Social Activities.
- Delivering guest lectures and invited talks by faculty members on diversified topic at various events.
- Organizing workshop for high school students of the locality on web design and ethical hacking.
- Students and faculty members of the department are engaged in teaching and mentoring poor and under privileged tribal students of local villages through a voluntary organization named "Sanskar Kendra".

**47. Give details of “beyond syllabus scholarly activities” of the department.**

- Conducts periodic guest lectures on cutting edge technologies by inviting academicians and industry persons.
- Conducts Workshops both for faculty and students to help in acquiring the necessary skills for using modern tools and techniques.
- Encourage students to actively participate professional society activities ACM/IEEE/CSI.
- Conducts various activities such as
  - ADHRIT– A national level annual technical symposium.
  - SAMAVESH– An intra-department technical competition on various skills
  - Sports Meet and VASSAUNT– An intra-department Extra Curricular meet to help in all round development of the students which includes sports and cultural activities.
  - EMOUVOIR- An theatrical performances and variety shows etc. which exploit and develop musical & histrionic talents of the students.
  - Technical paper presentation outside college.

**48. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

No Previous Accreditation done.

**49. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

**Curricular and Co-curricular Activities: -**

It helps to build the Knowledge base in the field of applied Computer Science as follows:

- Organizing Seminar with Resource Persons for the PG students.
- Organizing Seminars and Workshops with the help of MCA Students Society.( Adhrit’2013, Adhrit’2014,Adhrit’2015).
- Collaborative Programmes with the other Departments the University – ICCIDM’2014 with CSE Dept.
- Making available the Infrastructure for the organization of Placement test.

**Community Orientation: -**

It helps to build the Knowledge base in the field of basic humanities as follows:

Rallies, Camps and other student awareness Programmes by N.S.S on relevant Social issues. Community development work at Sanskar Kendra for the upliftment of nearby slum areas.

**Personal and Spiritual Development: -**

It helps to build the Knowledge base in the field of holistic education as follows:

- Yoga Training for Stress management

- Camps on Personality Development and Personal Health
- Guest Lectures for Personal and Spiritual Enhancement
- Cultural Competitions and Activities
- Sports Activities

**50. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

|   |  |
|---|--|
| <p><b>STRENGTH</b></p> <ul style="list-style-type: none"> <li>• Full academic autonomy in unitary university.</li> <li>• Good quality faculty staffs.</li> <li>• Creamy layer of students.</li> <li>• Brand image due to 20 years of standing.</li> <li>• Good placement record.</li> <li>• Well placed alumni's.</li> <li>• Industrial Project exposure for all the students.</li> <li>• Periodic updation of curriculum.</li> <li>• Conferences &amp; CEP's organized on regular basis.</li> </ul>  | <p><b>WEAKNESS</b></p> <ul style="list-style-type: none"> <li>• Less teacher-taught ratio.</li> <li>• Inadequate supporting staffs.</li> <li>• Low research &amp; consultancy output.</li> <li>• Non-availability of PG research ( M.Tech &amp; Ph.D ) programmes.</li> <li>• Inadequate technical journal publication.</li> <li>• Inadequate sophisticated equipment &amp; laboratories in areas of emerging technology for PG teaching &amp; research.</li> <li>• Less than needed emphasis on personal development of students.</li> <li>• Inadequate emphasis on entrepreneur skill development in students.</li> <li>• Inadequate educational technology facilities according to global norms.</li> <li>• Library facilities not as par with NIT's/ IIT's</li> <li>• Inadequate linkage with industry &amp; community.</li> </ul> |
| <p><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>• Scope to provide good education in cost effective manner.</li> <li>• Technological development provides enhanced demand for quality technical manpower.</li> <li>• To increase research activities through M.Tech and PhD.</li> <li>• Scope for establishment of center of excellence.</li> <li>• Tapping of alumni experience for contribution towards:<br/>Infrastructure and Intellectual Capital Building<br/>Development of Computational laboratories</li> <li>• Collaboration programs with universities/industries etc.</li> <li>• To promote the concept of digital library.</li> <li>• To organize young faculty development program.</li> </ul> | <p><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>• Geographical location and attractive opportunities, a threat to attract &amp; retain good faculties, also for prospective employers.</li> <li>• No M.Tech and PhD program pose a serious threat to research output and research project initiatives..</li> <li>• Inadequate infrastructural and technical facilities a threat to future development in curriculum and programme.</li> </ul>  |

## 51. Future plans of the department.

Future Perspective Plan of Academic/Infrastructure/Curriculum/Laboratory Development:

- **Academic Development:**

**1. Introduction of Self-financing M.Tech Course** – M.Tech in Computer Science with Specialization in High Performance Computing – 18 Seats

**2. Introduction of Ph.D Programme** – Ph.D in Computer Science

- **Curriculum Development:**

As per the changing educational requirements and standards, project based curriculum is devised to enhance the technical skills of the students. (Proposed by Board of Studies from 2016 admission batch)

- **Infrastructure Development:**

a) **Civil Works and Furniture:**

| SL. No.                                      | Item                 | Specification                                      | No. of Units | Total sq.ft  | Approximate Cost Per Sq.ft/Unit (Rs) | Approximate Cost (Rs)                            |
|--|----------------------|--|--------------|--------------|--------------------------------------|--|
| 01   | Class Rooms          | 800 Sq. ft   | 03           | 2,400 Sq. ft | 2000                                 | 48,00,000  |
| 02   | Laboratories         | 800 Sq.ft  | 03           | 2,400 Sq. ft | 2000                                 | 48,00,000  |
| 03   | Library/Reading Room | 800 Sq. ft   | 01           | 800 Sq. ft   | 2000                                 | 16,00,000  |
| 04   | Faculty Room         | 120 Sq.ft  | 04           | 480 Sq. ft   | 2000                                 | 9,60,000   |
| 05   | Air Conditioner      | Carrier 2 Ton 4 Star Superia Split Air Conditioner | 08           | -            | 58,400                               | 4,67,200   |
| 06   | Furnitures           | Faculty Chair                                      | 05           | -            | 4,000                                | 20,000   |
|  |                      | Faculty Table                                      | 05           | -            | 5,000                                | 25,000   |
|  |                      | Plastic Chair (Sitting)                            | 60           | -            | 1,000                                | 60,000   |
|  |                      | Record/Book Shelf                                  | 15           | -            | 10,000                               | 1,50,000   |
|  |                      | Sitting Stool                                      | 150          | -            | 1,200                                | 1,80,000   |
|  |                      | Computer Table                                     | 150          | -            | 3,000                                | 4,50,000   |
|  |                      | Laboratory Table                                   | 08           | -            | 8,500                                | 68,000   |
|  |                      | Almirah  | 12           | -            | 14,500                               | 1,74,000   |
| Approximate Cost Total (in Rs.) (In figures) |                      |  |              |              |                                      | 1,37,54,200.00                                   |
| Approximate Cost Total (in Rs.) (In words)   |                      |  |              |              |                                      | One Crore Thirty Seven lakhs Fifty Four thousand |

|  |                  |
|--|------------------|
|  | Two hundred only |
|--|------------------|

**b) Hardware and Software:**

| Java/.NET Lab ( PC Windows Lab - 1) |                        |  |              |                                |                       |
|-------------------------------------|------------------------|--|--------------|--------------------------------|-----------------------|
| SL. No.                             | Item                   | Specification                              | No. of Units | Approximate Cost Per Unit (Rs) | Approximate Cost (Rs) |
| 1                                   | PC(All-In-One Desktop) | a) Windows 8 OS                            | 35           | 49590                          | 1735650               |
|                                     |                        | b) Processor Intel i5 4 th Generation      |              |                                |                       |
|                                     |                        | c) 4 GB DDR3                               |              |                                |                       |
|                                     |                        | d) HDD - 1 TB                              |              |                                |                       |
|                                     |                        | e) Keyboard(Dell KM632)                    |              |                                |                       |
|                                     |                        | f) Mouse(Dell KM632)                       |              |                                |                       |
|                                     |                        | g) Display - LCD                           |              |                                |                       |
|                                     |                        | h)GPU-NVIDIA 1GB                           |              |                                |                       |
|                                     |                        | (Dell New Inspiron 3647 Desktop)           |              |                                |                       |
|                                     |                        |  |              |                                |                       |
| 2                                   | Software               | a) Adobe Dream weaver CS6                  | 1            | 29484                          | 29484                 |
|                                     |                        | b) Text Pad 7.4 / Edit Plus 3.70           | 35           | 1218                           | 42630                 |
|                                     |                        | c)Adobe photoshop cs6                      | 1            | 56723                          | 56723                 |
|                                     |                        | d) Visual Studio 2013 Enterprises          | 1            | 50957                          | 50957                 |
|                                     |                        | e) Oracle 12C Enterprise Edition           | 1            | 58207                          | 58207                 |
|                                     |                        | f)MS Office 2007(Ribbon users)             | 1            | 52732                          | 52732                 |
|                                     |                        | g) Myeclipse Standard edition              | 35           | 1932                           | 67620                 |
|                                     |                        | h)Komodo IDE                               | 1            | 17951                          | 17951                 |
|                                     |                        | i)DJ Java Decompiler                       | 35           | 1217                           | 42595                 |
|                                     |                        | j)MS Visio Business Edition                | 1            | 34525                          | 34525                 |
|                                     |                        | k)Mini Tool Power Data Recovery Enterprise | 1            | 19226                          | 19226                 |
|                                     |                        | l) WinRAR                                  | 35           | 802                            | 28070                 |
|                                     |                        | m)Adobe flash Professional cs6             | 1            | 52598                          | 52598                 |
|                                     |                        | o)Nero 2014 Platinum edition               | 12           | 7277                           | 87324                 |
|                                     |                        | p) C Cleaner Professional                  | 35           | 1695                           | 59325                 |
|                                     |                        | q)WS FTP Professional                      | 35           | 6254                           | 218890                |
|                                     |                        |  |              |                                |                       |
| 3                                   | Windows Server         | a)MS Windows Server 2012 r2                | 1            | 33000                          | 33000                 |



|   |                 |   |     |          |          |
|---|-----------------|---|-----|----------|----------|
|   |                 | b)Display(Samsung LS 23 c350hs /XL 23")   | 1   | 10500    | 10500    |
|   |                 | c)Key board & mouse(IBM combo)  | 1   | 2250     | 2250     |
|   |                 | d)IBM System x3650 M4(Part no. -7915ihw ,Intel xeon procesor E5-2630 (Six Core),2.3 G.hz /1333 mhz/15mb, memory 1X8gb,3X300 gb SAS HDD ,2.5" Hotswap,512 MBcache) | 1   | 325000   | 325000   |
|   |                 | e)Server rack   | 1   | 10200    | 10200    |
|   |                 | f)Server Table & Chair  | 1   | 8650     | 8650     |
|   |                 | g)WD Red 3TB NAS HDD 3.5"   | 3   | 7952     | 23856    |
|   |                 | h)HP 1X8 gb dual Rank X4 PC3-10600(DDR3-1333 CAS 9)   | 2   | 15579    | 31158    |
|   |                 |   |     |          |          |
| 4 | Online UPS      | Luminous 15 KVA Online UPS  | 1   | 1,50,250 | 1,50,250 |
|   |                 |   |     |          |          |
| 5 | Network Devices | a) Router(CISCO 2921 / k9 (Cisco 2921 w/3 GE,4EHWIC 3DBP ,2SM,256MB CF,512 DRAM, IPB))  | 1   | 79549    | 79549    |
|   |                 | b) Switch(Cisco-SG200-50P 50Port 10/100/1000 Gb PoE Smart Switch)   | 1   | 38500    | 38500    |
|   |                 | c) Hub(Cisco link sys sf300 48-port 10/100 switch)  | 1   | 17000    | 17000    |
|   |                 | d) Patch Pannel(NP-BP 48 3U c6 c-k)(Cat 6 feedthrough patch pannel - 48 port)   | 1   | 5500     | 5500     |
|   |                 | e) Fiber optic to UTP converter (FT-1000 mm-lc / gb e fiber media converter- utp to 1000 base -LX -LC multimode, 550m,1300/1310 mm)                               | 1   | 6500     | 6500     |
|   |                 | f) LAN cable (DLINK cat 6 24-awg)   | 1   | 3050     | 3050     |
|   |                 | g) RJ 45 Male jack  | 150 | 10       | 1500     |
|   |                 | h) I/O box with RJ 45 female jack   | 36  | 50       | 1800     |
|   |                 | i)Cisco system Cisco ASA 5505 Firewall Edition  | 1   | 42257    | 42257    |

|   |                 |  |   |                           |                     |
|---|-----------------|--|---|---------------------------|---------------------|
|   |                 | Bundle   |   |                           |                     |
|   |                 |  |   |                           |                     |
| 6 | Air Conditioner | Carrier 2 Ton 4 Star Superia Split Air Conditioner | 2 | 58400                     | 116800              |
|   |                 |  |   | <b>Approximate Cost :</b> | <b>35,61,827.00</b> |

| Oracle Lab ( PC Windows Lab - 2)           |                        |  |              |                                |                       |          |                                 |   |       |
|--|------------------------|--|--------------|--------------------------------|-----------------------|----------|---------------------------------|---|-------|
| SL. No.                                    | Item                   | Specification  | No. of Units | Approximate Cost Per Unit (Rs) | Approximate Cost (Rs) |          |                                 |   |       |
| 1  | PC(All-In-One Desktop) | a) Windows 8 OS                                      | 35           | 49590                          | 1735650               |          |                                 |   |       |
|  |                        | b) Processor Intel i5 4 th Generation                |              |                                |                       |          |                                 |   |       |
|  |                        | c) 4 GB DDR3   |              |                                |                       |          |                                 |   |       |
|  |                        | d) HDD - 1 TB  |              |                                |                       |          |                                 |   |       |
|  |                        | e) Keyboard(Dell KM632)                              |              |                                |                       |          |                                 |   |       |
|  |                        | f) Mouse(Dell KM632)                                 |              |                                |                       |          |                                 |   |       |
|  |                        | g) Display - LCD                                     |              |                                |                       |          |                                 |   |       |
|  |                        | h)GPU-NVIDIA 1GB<br>(Dell New Inspiron 3647 Desktop) |              |                                |                       |          |                                 |   |       |
|  |                        |  |              |                                |                       |          |                                 |   |       |
|  |                        | 2  |              |                                |                       | Software | a)Oracle 12C Enterprise Edition | 1 | 58207 |
| b) PL/SQL Developer(50 User)               | 1                      |  | 153720       | 153720                         |                       |          |                                 |   |       |
| c) Adobe Dream weaver CS6                  | 1                      |  | 29484        | 29484                          |                       |          |                                 |   |       |
| d) Visual Studio 2013 Enterprises          | 1                      |  | 50957        | 50957                          |                       |          |                                 |   |       |
| e)MS Office 2007(Ribbon users)             | 1                      |  | 52732        | 52732                          |                       |          |                                 |   |       |
| f)Komodo IDE                               | 1                      |  | 17951        | 17951                          |                       |          |                                 |   |       |
| g)MS Visio Business Edition                | 1                      |  | 34525        | 34525                          |                       |          |                                 |   |       |
| h)Adobe photoshop cs6                      | 1                      |  | 56723        | 56723                          |                       |          |                                 |   |       |
| i)Mini Tool Power Data Recovery Enterprise | 1                      |  | 19226        | 19226                          |                       |          |                                 |   |       |
| j) WinRar                                  | 35                     |  | 802          | 28070                          |                       |          |                                 |   |       |
| k)Adobe flash Professional cs6             | 1                      |  | 52598        | 52598                          |                       |          |                                 |   |       |
| l)Bitdefender Total Security 1 PC          | 35                     |  | 2300         | 80500                          |                       |          |                                 |   |       |
| m)Nero 2014 Platinum edition               | 12                     |  | 7277         | 87324                          |                       |          |                                 |   |       |
| n) C Cleaner Professional                  | 35                     |  | 1695         | 59325                          |                       |          |                                 |   |       |

|   |                 |   |     |          |          |
|---|-----------------|---|-----|----------|----------|
|   |                 | o)WS FTP Professional   | 35  | 6254     | 218890   |
|   |                 |   |     |          |          |
| 3 | Windows Server  | a)MS Windows Server 2012 r2   | 1   | 33000    | 33000    |
|   |                 | b)Display(Samsung LS 23 c350hs /XL 23")   | 1   | 10500    | 10500    |
|   |                 | c)Key board & mouse(IBM combo)  | 1   | 2250     | 2250     |
|   |                 | d)IBM System x3650 M4(Part no. -7915ihw ,Intel xeon procesor E5-2630 (Six Core),2.3 G.hz /1333 mhz/15mb, memory 1X8gb,3X300 gb SAS HDD ,2.5" Hotswap,512 MBcache) | 1   | 325000   | 325000   |
|   |                 | e)Server rack   | 1   | 10200    | 10200    |
|   |                 | f)Server Table & Chair  | 1   | 8650     | 8650     |
|   |                 | g)WD Red 3TB NAS HDD 3.5"   | 3   | 7952     | 23856    |
|   |                 | h)HP 1X8 gb dual Rank X4 PC3-10600(DDR3-1333 CAS 9)   | 2   | 15579    | 31158    |
|   |                 |   |     |          |          |
| 4 | Online UPS      | Luminous 15 KVA Online UPS  | 1   | 1,50,250 | 1,50,250 |
|   |                 |   |     |          |          |
| 5 | Network Devices | a) Router(CISCO 2921 / k9 (Cisco 2921 w/3 GE,4EHWIC 3DBP ,2SM,256MB CF,512 DRAM, IPB))  | 1   | 79549    | 79549    |
|   |                 | b) Switch(Cisco-SG200-50P 50Port 10/100/1000 Gb PoE Smart Switch)   | 1   | 38500    | 38500    |
|   |                 | c) Hub(Cisco link sys sf300 48-port 10/100 switch)  | 1   | 17000    | 17000    |
|   |                 | d) Patch Pannel(NP-BP 48 3U c6 c-k)(Cat 6 feedthrough patch pannel - 48 port)   | 1   | 5500     |          |
|   |                 | e) Fiber optic to UTP converter (FT-1000 mm-lc / gb e fiber media converter- utp to 1000 base -LX -LC multimode, 550m,1300/1310 mm)                               | 1   | 6500     | 6500     |
|   |                 | f) LAN cable (DLINK cat 6 24-awg)   | 1   | 3050     | 3050     |
|   |                 | g) RJ 45 Male jack  | 150 | 10       | 1500     |

|   |                 |   |    |                           |                     |
|---|-----------------|---|----|---------------------------|---------------------|
|   |                 | h) I/O box with RJ 45 female jack                     | 36 | 50                        | 1800                |
|   |                 | i)Cisco system Cisco ASA 5505 Firewall Edition Bundle | 1  | 42257                     | 42257               |
| 6 | Air Conditioner | Carrier 2 Ton 4 Star Superia Split Air Conditioner    | 2  | 58400                     | 116800              |
|   |                 |   |    | <b>Approximate Cost :</b> | <b>36,37,702.00</b> |

| Open Source Lab |                        |   |              |                                |                       |
|-----------------|------------------------|---|--------------|--------------------------------|-----------------------|
| SL. No.         | Item                   | Specification   | No. of Units | Approximate Cost Per Unit (Rs) | Approximate Cost (Rs) |
| 1               | PC(All-In-One Desktop) | a) Ubuntu Linux 12.04   | 35           | 46140                          | 1614900               |
|                 |                        | b) Processor Intel i5 4 <sup>th</sup> Generation                            |              |                                |                       |
|                 |                        | c) 4 GB DDR3  |              |                                |                       |
|                 |                        | d) HDD - 1 TB   |              |                                |                       |
|                 |                        | e) Keyboard(Dell KM632)   |              |                                |                       |
|                 |                        | f) Mouse(Dell KM632)  |              |                                |                       |
|                 |                        | g) Display - LCD  |              |                                |                       |
|                 |                        | h)GPU-NVIDIA 1GB (Dell New Inspiron 3647 Desktop)                           |              |                                |                       |
|                 |                        |   |              |                                |                       |
| 2               | Software               | a)Red Hat Enterprise Linux  | 35           | 2985                           | 104475                |
|                 |                        | b) Apache open office 4.41  | 35           | 2270                           | 79450                 |
|                 |                        | c)MySQL data base   | 35           | 2120                           | 74200                 |
|                 |                        | d) Google Web Designer  | 35           | 1225                           | 42875                 |
|                 |                        | e)Filezila  | 35           | 1510                           | 52850                 |
|                 |                        | f)Flash Develop 4.6.4   | 35           | 1020                           | 35700                 |
|                 |                        | g)Q Pdfv2.0   | 35           | 1070                           | 37450                 |
|                 |                        | h)Gimp  | 35           | 995                            | 34825                 |
|                 |                        | i)Unison  | 35           | 850                            | 29750                 |
|                 |                        | j)Bluefish2.2   | 35           | 730                            | 25550                 |
|                 |                        | k)Wine 1.7  | 35           | 1824                           | 63840                 |
|                 |                        | l)GEdit   | 35           | 624                            | 21840                 |
|                 |                        |   |              |                                |                       |
| 3               | Linux Server           | a) Red Hat Enterprise Linux server for Ibm Power(4 Socket 30 LPARs/Standard | 1            | 328590                         | 328590                |

|   |                 |   |     |          |          |
|---|-----------------|---|-----|----------|----------|
|   |                 | subscription)   |     |          |          |
|   |                 | b)Display(Samsung LS 23 c350hs /XL 23")   |     | 10500    | 10500    |
|   |                 | c)Key board & mouse(IBM combo)  | 1   | 2250     | 2250     |
|   |                 | d)Server rack   | 1   | 10200    | 10200    |
|   |                 | e)Server Table & Chair  | 1   | 8650     | 8650     |
|   |                 | g)WD Red 3TB NAS HDD 3.5"   | 3   | 7952     | 23856    |
|   |                 | h)HP 1X8 gb dual Rank X4 PC3-10600(DDR3-1333 CAS 9)   | 2   | 15579    | 31158    |
|   |                 |   |     |          |          |
| 4 | Online UPS      | Luminous 15 KVA Online UPS  | 1   | 1,50,250 | 1,50,250 |
|   |                 |   |     |          |          |
| 5 | Network Devices | a) Router(CISCO 2921 / k9 (Cisco 2921 w/3 GE,4EHWIC 3DBP ,2SM,256MB CF,512 DRAM, IPB))  | 1   | 79549    | 79549    |
|   |                 | b) Switch(Cisco-SG200-50P 50Port 10/100/1000 Gb PoE Smart Switch)   | 1   | 38500    | 38500    |
|   |                 | c) Hub(Cisco link sys sf300 48-port 10/100 switch)  | 1   | 17000    | 17000    |
|   |                 | d) Patch Pannel(NP-BP 48 3U c6 c-k)(Cat 6 feedthrough patch pannel -48 port)  | 1   | 5500     | 5500     |
|   |                 | e) Fiber optic to UTP converter (FT-1000 mm-lc / gb e fiber media converter- utp to 1000 base -LX -LC multimode, 550m,1300/1310 mm) | 1   | 6500     | 6500     |
|   |                 | f) LAN cable (DLINK cat 6 24-awg)   | 1   | 3050     | 3050     |
|   |                 | g) RJ 45 Male jack  | 150 | 10       | 1500     |
|   |                 | h) I/O box with RJ 45 female jack   | 36  | 50       | 1800     |
|   |                 | i)Cisco system Cisco ASA 5505 Firewall Edition Bundle   | 1   | 42257    | 42257    |
|   |                 |   |     |          |          |
| 6 | Air Conditioner | Carrier 2 Ton 4 Star Superia Split Air Conditioner  | 2   | 58400    | 116800   |

|  |  |  |  |                  |              |
|--|--|--|--|------------------|--------------|
|  |  |  |  | Approximate Cost |              |
|  |  |  |  | :                | 30,95,615.00 |

**Total Cost of Infrastructure Development:**

a) Civil Works and Furniture: Rs. 1,03,54,200.00

b) Hardware and Software: Rs. 1,02,95,144.00

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**Total: Rs. 2,40,49,344.00**

## EVALUATIVE REPORT OF THE DEPARTMENT

1. **Name of the Department :** Chemical Engineering
2. **Year of establishment:** 2014
3. **Is the Department part of a School/Faculty of the university?**

Yes, the department is independent under the University.

The university has started a 4 year B.Tech in Chemical Engineering from the academic session 2014-15 with an intake of 60 after due approval from the Govt. of Odisha. At present, one of the Professor of Chemistry Department is acting as Head of the Department of Chemical Engineering. The Department of Chemical Engineering is started in 2014 to inculcate students with a strong fundamental knowledge in the field of chemical Engineering and to meet the challenges of rapidly changing technological environment. Although in its nascent stage, the state government has already sanctioned nine faculty positions to strengthen it. The branch of Chemical Engineering deals with the chemical processes for manufacturing of different products, designing of related equipments. It will try to impart quality education to the students in all areas especially in the modern broad areas such as nanotechnology, green technology, renewable energy, environmental engineering, biochemical engineering, process control, reaction engineering, transfer operations etc.

The Government of Odisha has already sanctioned following posts

Teaching Post

| <b>Professor</b> | <b>Associate Professor</b> | <b>Assistant Professor</b> |
|------------------|----------------------------|----------------------------|
| 01               | 02                         | 06                         |

Supporting Staff (Contractual)

| <b>Junior Instructor</b> | <b>Laboratory Attendant</b> |
|--------------------------|-----------------------------|
| 02                       | 02                          |

The above teaching and supporting staff posts have already been advertised and is going to be filled up soon. The infrastructure for the Chemical Engineering laboratories has already been developed. Four new laboratories will be set up in the due course of time.



118

*[Handwritten signature]*  
11/1/10

No. F.9-36/2009(CPP-I)

December, 2009

The Registrar,  
Veer Surendra Sai University of Technology,  
P.O. Burla Engineering College  
Distt. Sambalpur - 768018  
Orissa.

5 JAN 2010

Subject: Establishment of Veer Surendra Sai University of Technology, Burla  
Orissa.

Sir,

With reference to your Letter No. VSSUT/P&C/2799/09 dated 20.10.2009 on the subject cited above, I am directed to say you that the Veer Surendra Sai University of Technology, Burla has been established by Act (No. 9 of 2009) of State Legislature of Orissa as a State University and is empowered to award degrees as specified by the UGC under section 22 of the UGC Act 1956 through its main campus with the approval of statutory councils, wherever required.

The University may note and adhere to the following: -

- i) To ensure that no off campus centre(s)/study centre and the centres operating through franchises is opened by the University outside the territorial jurisdiction of the State in view of the judgement of Hon'ble Supreme Court of India in case of Prof. Yashpal vs. Government of Chhattisgarh.
- ii) In case the university has already started any off-campus/study centre and the centre operating through franchises outside the State, it must be closed immediately.
- iii) No distance education programmes shall be started without the prior approval of Joint Committee of UGC-AICTE-DEC for which DEC is the Coordinating Authority..

A copy of the format is enclosed herewith and request you to furnish the detailed information in the prescribed format for inspection purpose under 12(B) on or before 28-01-2010.

Yours faithfully

*[Handwritten signature of S.C. Chadha]*

(S.C. Chadha)

Deputy Secretary

Encl: As above

*[Handwritten note]*  
Sris. Mohanty, Sr. steno  
Pl. prepare by 15<sup>th</sup> Jan 10,  
11/1/10



## ANNEXURE - II

Ph. 23236351, 23232701, 23237721, 23234116  
23235733, 23232317, 23236735, 23239437

[www.ugc.ac.in](http://www.ugc.ac.in)



ज्ञान विज्ञान विमुक्तये

**Speed Post**

F.No. 9-36/2009 (CPP-I/PU)

विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

October, 2012

**8 NOV 2012**

### **NOTIFICATION**

**Veer Surendra Sai University of Technology, Burla, Odisha** has been established by Government of Odisha through an Act (No. 9 of 2009) of Odisha legislature and notified vide State Government Gazette No. 2364/I-Legis.50/08 dated 12<sup>th</sup> February, 2009. The University is now declared eligible to receive Central Assistance in terms of Rules framed under Section 12(B) of the UGC Act, 1956 as per the decision of the Commission (item No. 5.16) dated 22<sup>nd</sup> October, 2012.

  
(Dev Swarup)  
Joint Secretary

### **Copy to:-**

1. The Vice-Chancellor, Veer Surendra Sai University of Technology, P.O. Engineering College, Burla, Distt. – Sambalpur – 768 018, Odisha.
2. The Secretary, Government of India, Ministry of Human Resource Development, (Department of Secondary & Higher Education), Shastri Bhawan, New Delhi-110 001.
3. The Secretary, Govt. of Orissa, Higher Education Department, Orissa Secretariat, Bhubneshwar – 751 001.
4. The Director, Distance Education Council, IGNOU, Maidan Garhi, New Delhi.
5. The Secretary General, Association of Indian Universities, 16 Kotla Marg, New Delhi 110 002.
6. The Director, National Assessment and Accreditation Council (NAAC), Bangalore – 560 010 (Karnataka).
7. The Director, Medical Council of India, Medical Council of India, Pocket – 14, Sector – 8, Dwarka Phase –I, New Delhi – 110 075.
8. The Secretary, Union Public Service Commission, Shahajahan Road, New Delhi 110 001.
9. Joint Secretary, State Universities, UGC, New Delhi.
10. Senior Statistical Officer, UGC, 35, Ferozshah road, New Delhi – 110 001.
11. Publication Officer (website), UGC, New Delhi.
12. SO (Meeting) UGC, New Delhi (ATN UGC item No. 5.16 dated. 22.10.2012)
13. All Regional Offices, UGC.
14. DS (FD)/SO (FD), UGC New Delhi.
15. DS (SU)/JS (XIth Plan) UGC, New Delhi.
16. SO (CPP-I) UGC, New Delhi.
17. Guard File.

  
(Raksha Pahwa)  
Under Secretary

# ANNEXURE - III



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. Eastern/1-2010708157/2014/EOA

Date: 08-Jun-2014

To,  
The Commissioner cum Secretary,  
Deptt. Of Higher & Technical Education,  
Govt. of Orissa, Orisas Sectt.  
Bhubaneshwar-751001

Sub: Extension of approval for the academic year 2014-15

Ref: Application of the Institution for Extension of approval for the academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |   |                       |   |
|---------------------------|---|-----------------------|---|
| Regional Office           | Eastern   | Application Id        | 1-2010708157  |
|                           |   | Permanent Id          | 1-455946701   |
| Name of the Institute     | VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA | Institute Address     | VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA<br>PO. BURLA ENGG. COLLEGE,<br>DIST. SAMBALPUR, BURLA, SAMBALPUR, Orissa,<br>768018 |
| Name of the Society/Trust | VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA | Society/Trust Address | VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA<br>PO. BURLA ENGG. COLLEGE,<br>DIST.<br>SAMBALPUR,BURLA,SAMBALPUR,Orissa,768018     |
| Institute Type            | Govt aided  |                       |   |

|                                      |                |                          |                |                          |                |
|--------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

to conduct following courses with the intake indicated below for the academic year 2014-15

Application Number: 1-2010708157\*

Page 1 of 5

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:30 July 2014

Printed By : AIC002891



| Application Id: 1-2010708157 |           |               | Course                            | Full/Part Time | Affiliating Body                | Intake 2013-14 | Intake Approved for 14-15 | NRI Approval status | PIO Approval status | Foreign Collaboration Approval status |
|------------------------------|-----------|---------------|-----------------------------------|----------------|---------------------------------|----------------|---------------------------|---------------------|---------------------|---------------------------------------|
| Program                      | Shift     | Level         |                                   |                |                                 |                |                           |                     |                     |                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | COMMUNICATION SYSTEMS             | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | COMPUTER SCIENCE & ENGINEERING    | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | HEAT POWER ENGINEERING            | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | MACHINE DESIGN                    | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | MANUFACTURING SYSTEMS ENGINEERING | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | POWER ELECTRONICS AND CONTROL     | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | POWER SYSTEMS ENGINEERING         | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | PRODUCTION ENGINEERING            | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | STRUCTURAL ENGINEERING            | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |



| Application Id: 1-2010708157 |           |                | Course   | Full/Part Time | Affiliating Body                | Intake 2013-14 | Intake Approved for 14-15 | NRI Approval status | PIO Approval status | Foreign Collaboration Approval status |
|------------------------------|-----------|----------------|--|----------------|---------------------------------|----------------|---------------------------|---------------------|---------------------|---------------------------------------|
| Program                      | Shift     | Level          |  |                |                                 |                |                           |                     |                     |                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE  | TRANSPORTATION ENGINEERING                     | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE  | VLSI   | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE  | WATER RESOURCE ENGINEERING                     | FULL TIME      | Sambalpur University, Sambalpur | 18             | 18                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | CIVIL ENGINEERING                              | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | COMPUTER SCIENCE & ENGINEERING                 | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | ELECTRICAL AND ELECTRONICS ENGINEERING         | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | ELECTRICAL ENGINEERING                         | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | INFORMATION TECHNOLOGY                         | FULL TIME      | Sambalpur University, Sambalpur | 40             | 40                        | NA                  | NA                  | N                                     |



| Application Id: 1-2010708157 |           |                | Course                 | Full/Part Time | Affiliating Body                | Intake 2013-14 | Intake Approved for 14-15 | NRI Approval status | PIO Approval status | Foreign Collaboration Approval status |
|------------------------------|-----------|----------------|------------------------|----------------|---------------------------------|----------------|---------------------------|---------------------|---------------------|---------------------------------------|
| Program                      | Shift     | Level          |                        |                |                                 |                |                           |                     |                     |                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | MECHANICAL ENGINEERING | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | UNDER GRADUATE | PRODUCTION ENGINEERING | FULL TIME      | Sambalpur University, Sambalpur | 60             | 60                        | NA                  | NA                  | N                                     |

- Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)>departments>approvals

The above mentioned approval is subject to the condition that VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and subsequently upload and update the student/ faculty/ other data on portal as per the time schedule which will be intimated by AICTE.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

(Dr. Kuncheria P. Isaac)

Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
College of Leather Technology Campus



Block LB, Sector III, Salt Lake City  
Kolkata - 700 098, West Bengal

2. **The Director Of Technical Education,**  
Orissa
3. **The Registrar,**  
Veer Surendra Sai University of Technology, Burla
4. **The Principal / Director,**  
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA  
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA  
PO. BURLA ENGG. COLLEGE,  
DIST. SAMBALPUR,  
BURLA,SAMBALPUR,  
Orissa,768018
5. **The Secretary / Chairman,**  
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA  
VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA  
PO. BURLA ENGG. COLLEGE,  
DIST. SAMBALPUR,  
BURLA,SAMBALPUR,  
Orissa,768018
6. **Guard File(AICTE)**

**LOCAL FUND AUDIT, SAMBALPUR, ODISHA**

CATEGORY : University

Audit Report No : 44699/AR/2014-2015-SAMBALPUR

**PARA: 1 TITLE SHEET**

|    |  |  |
|----|--|--|
| 1  | Name of the Institution :                              | <b>VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY</b>  |
| 2  | Year of Accounts under Audit :                         | <b>2013-2014</b>   |
| 3  | Name of the Local Authority during the year of A/Cs :  | Dr.Jamini Ranjan Mohanty,Registrar   |
|    | Name of the Local Authority at the time of Audit :     | 01-Dr.Jamini Ranjan Mohanty,Registrar<br>(From Dt.01.04.2013 to Dt.07.11.2014)<br>02-Prof. Manas Ranjan Kabat Register I/C<br>(From Dt.08.11.2014 to 22.11.2014)<br>03-Prof.Satyabrata Das Register I/C<br>(From Dt.23.11.2014 to Dt.24.11.2014) |
| 4  | Duration of Audit :                                    | 07-05-2014 To 24-11-2014 (Mandays Consumed :- 120)   |
| 5  | Name of the Auditors :                                 | JITENDRIYA PRADHAN - Lead Auditor(07-05-2014 to 24-11-2014)<br>JITEN KUMAR PATI - Auditor(07-05-2014 to 24-11-2014)  |
| 6  | Name of the Reviewing Officer :                        | MINATI PATI(District Audit Officer)  |
| 7  | Date of submission of report by Reviewing officer :    |  |
| 8  | Entry Conference Date :                                | 09-05-2014   |
| 9  | Exit Conference Date :                                 |  |
| 10 | Name of the District Audit Officer :                   | MINATI PATI  |
| 11 | Date of approval of report by District Audit Officer : |  |

**PARA: 2 PHYSICAL VERIFICATION**

| Slno | Name                          | Value      | Remarks     |
|------|-------------------------------|------------|-------------|
| 1    | Money Receipt Books           | 07.05.2014 | 0.00(P-37)  |
| 2    | Measurement Books             | 07.05.2014 | 0.00(P-127) |
| 3    | Recorded At                   |            |             |
| 4    | Liquid Cash                   | 07.05.2014 | 0.00        |
| 5    | Stamp Account                 |            | 0.00(P-45)  |
| 6    | Date of Physical Verification | 07.05.2014 |             |

**Comments**

As per OLFA Act Rule 1951 ,Rule-20Physical verification was conducted at the commencement of audit i.e. onDt.07.05.2014 and result of the same is stated herewith.



**PARA: 3 LIST OF VERIFIED RECORDS**
**A : List Of Verified Records/Register**

| S/no | List Records/Register                                 |
|------|---|
| 1    | SD/EMD Register                                       |
| 2    | Allotment Register                                    |
| 3    | Stamp Account Register                                |
| 4    | Service Books   |
| 5    | Log Book of Vehicles                                  |
| 6    | Utilisation Certificate files                         |
| 7    | Bill Register   |
| 8    | Pay Bill Register                                     |
| 9    | Advance Ledger  |
| 10   | Consumable Stock Register                             |
| 11   | Non-Consumable Stock Register                         |
| 12   | Bank Pass Books                                       |
| 13   | Register of Nomination for GPF/CPF                    |
| 14   | GPF Register  |
| 15   | CPF Register  |
| 16   | Grand-in-Aid Register                                 |
| 17   | Deposits with various Authorities                     |
| 18   | Advances from Parties/Contractors/suppliers/employees |
| 19   | Earnest Money Deposit Register                        |
| 20   | Security deposit Register                             |
| 21   | Salary and Allowances Payable Register                |
| 22   | TDR Register/Investment Register                      |
| 23   | Counterfoils of issued Cheques                        |
| 24   | BD/CHEQUE Receipt Register                            |
| 25   | House Building Loan Register                          |
| 26   | Advance Register                                      |
| 27   | INCOME & EXPENDITURE ACCOUNT for the year end         |
| 28   | RECEIPT & PAYMENT ACCOUNT for the year end            |
| 29   | Money Receipt Books                                   |
| 30   | Payment vouchers/Receipt Vouchers                     |
| 31   | Fixed Assets Register                                 |
| 32   | Register of Cheques Issued                            |
| 33   | Bank Books  |
| 34   | Cash Books  |

**B : List of Records/Registers not Produced to Audit**

| S/no | List Records/Register   |
|------|---|
| 1    | Foundation Fund Register  |
| 2    | Endowment Register  |
| 3    | Alphabetical Sheet  |
| 4    | Loan Ledger   |
| 5    | Treasury Book of Drawal   |
| 6    | Demand-Collection-Balance Register of fees recoverable from students/colleges |
| 7    | Trial Balance   |
| 8    | Works Register  |
| 9    | Materials with Contractors  |
| 10   | Sundry Debtors  |
| 11   | Salary Control Register   |
| 12   | Retention Money Register  |
| 13   | Sundry Creditors Register   |
| 14   | General Ledger  |
| 15   | College dues Register   |
| 16   | T.A. Control Register   |
| 17   | T.A. Advance Register   |
| 18   | Pay Advance Register  |
| 19   | Bank Loan Register  |
| 20   | Festival Advance Register   |
| 21   | Vehicle Advance Register  |
| 22   | BALANCE SHEET at the end of the year  |
| 23   | Journal/Contra Vouchers   |
| 24   | Journal Register  |

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| <b>C : List of Records/Registers not Maintained</b> |                              |
|---|------------------------------|
| <b>Sino</b>   | <b>List Records/Register</b> |

**Comments**

Demand-Collection-Balance Register of fees recoverable from students/colleges has not been maintained .However the above record is vital and essential for assessment fees and fines to be collected from students.Further to ascertain the defaulted amount against defaulters the above record is vital.So it is impressed upon the Local Authority to maintain the above register without delay.Further all other records and registers as prescribed as mentioned above may be maintained for reference.and records.

**PARA: 4 FINANCIAL POSITION**

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014**

| S/no | Name of the Cash Book                      | OB as on Date | Opening Balance(In Rs:) | Receipt during the Year under Audit(In Rs:) | Total(In Rs:)    | Expenditure during the Year under Audit(In Rs:) | Closing Balance as per Audit (DD MM YYYY) | Closing Balance(In Rs:)(AUDIT) | Closing Balance as per (DD MM YYYY) Cash Book | Closing Balance(In Rs:)(CASH BOOK) | Difference (In Rs:) | Remarks   |
|------|--|---------------|-------------------------|---|------------------|---|---|--------------------------------|---|------------------------------------|---------------------|---|
| 1    | General Cash Book                          | 01-04-2013    | 1084107<br>74.02        | 49713607<br>2.30                            | 60554684<br>6.32 | 43893794<br>0.50                                | 31-03-2014                                | 1666089<br>05.82               | 31-03-2014                                    | 1666089<br>05.82                   | 0.00                |   |
| 2    | Self FinanceCash Book                      | 01-04-2013    | 1922608<br>9.00         | 31671731.<br>00                             | 50897820.<br>00  | 13770843.<br>00                                 | 31-03-2014                                | 3712697<br>7.00                | 31-03-2014                                    | 3712697<br>7.00                    | 0.00                |   |
| 3    | Caution Money Cash Book                    | 01-04-2013    | 3594581.<br>00          | 2000.00                                     | 3596581.0<br>0   | 495000.00                                       | 31-03-2014                                | 3101581.<br>00                 | 31-03-2014                                    | 3101581.<br>00                     | 0.00                |   |
| 4    | G.P.F.Cash Book                            | 01-04-2013    | 1146194.<br>62          | 12387651.<br>00                             | 13533845.<br>62  | 13242032.<br>00                                 | 31-03-2014                                | 291813.6<br>2                  | 31-03-2014                                    | 291813.6<br>2                      | 0.00                |   |
| 5    | Self Finance Student Collection Cash Book  | 01-04-2013    | 1797247.<br>32          | 6908643.0<br>3                              | 8705890.3<br>5   | 15290.00  | 31-03-2014                                | 8690600.<br>35                 | 31-03-2014                                    | 8690600.<br>35                     | 0.00                |   |
| 6    | Regular Students Collection Cash Book      | 01-04-2013    | 2363156.<br>71          | 12001969.<br>09                             | 14365125.<br>80  | 133957.00                                       | 31-03-2014                                | 1423116<br>8.80                | 31-03-2014                                    | 1423116<br>8.80                    | 0.00                |   |
| 7    | Current Account Syndicate Bank Cash Book   | 01-04-2013    | 184021.0<br>0           | 505273.00                                   | 689294.00        | 13165.00  | 31-03-2014                                | 676129.0<br>0                  | 31-03-2014                                    | 676129.0<br>0                      | 0.00                |   |
| 8    | TEQIPCash Book                             | 01-04-2013    | 3137684.<br>00          | 5619502.6<br>5                              | 8757186.6<br>5   | 5351640.0<br>0                                  | 31-03-2014                                | 3405546.<br>65                 | 31-03-2014                                    | 3405546.<br>65                     | 0.00                |   |
| 9    | TEQIP(NEW)Cash Book                        | 01-04-2013    | 0.00                    | 10842734.<br>27                             | 10842734.<br>27  | 9295508.0<br>0                                  | 31-03-2014                                | 1547226.<br>27                 | 31-03-2014                                    | 1547226.<br>27                     | 0.00                |   |
| 10   | S.B.A/C Syndicate Bank Cash Book           | 01-04-2013    | 336081.9<br>7           | 54492.85                                    | 390574.82        | 0.00  | 31-03-2014                                | 390574.8<br>2                  | 31-03-2014                                    | 390574.8<br>2                      | 0.00                | Closing Balance as on Dt.31.03.2013 was wrongly shown as 238975.15 by last audit. |
| 11   | P.G.Scholarship Cash Book                  | 01-04-2013    | 750545.0<br>0           | 5869185.0<br>0                              | 6619730.0<br>0   | 6594145.0<br>0                                  | 31-03-2014                                | 25585.00                       | 31-03-2014                                    | 25585.00                           | 0.00                |   |
| 12   | Students Activity Fund                     | 01-04-2013    | 34850.46                | 2983258.8<br>8                              | 3018109.3<br>4   | 2896000.0<br>0                                  | 31-03-2014                                | 122109.3<br>4                  | 31-03-2014                                    | 122109.3<br>4                      | 0.00                |   |
| 13   | Dean Student Welfare (Syndicate Bank)      | 01-04-2013    | 11680.00                | 6976865.8<br>2                              | 6988545.8<br>2   | 5316758.0<br>0                                  | 31-03-2014                                | 1671787.<br>82                 | 31-03-2014                                    | 1671787.<br>82                     | 0.00                | Closing Balance as on Dt.31.03.2013 by last audit was wrongly shown as 171020.00  |
| 14   | Dean Student Welfare(SBI)                  | 01-04-2013    | 6759.89                 | 445933.00                                   | 452692.89        | 450600.00                                       | 31-03-2014                                | 2092.89                        | 31-03-2014                                    | 2092.89                            | 0.00                |   |
| 15   | Hall Development (Syndicate Bank)Cash Book | 01-04-2013    | 1925000.<br>00          | 2509117.8<br>5                              | 4434117.8<br>5   | 2130303.0<br>0                                  | 31-03-2014                                | 2303814.<br>85                 | 31-03-2014                                    | 2303814.<br>85                     | 0.00                |   |
| 16   | Civil Engineering Dept(20%)Cash            | 01-04-2013    | 1344443.<br>69          | 567508.00                                   | 1911951.6<br>9   | 0.00  | 31-03-2014                                | 1911951.<br>69                 | 31-03-2014                                    | 1911951.<br>69                     | 0.00                |   |

|    |                                    |            |                     |                     |                     |                     |            |                     |            |                     |                |  |
|----|------------------------------------|------------|---------------------|---------------------|---------------------|---------------------|------------|---------------------|------------|---------------------|----------------|--|
| 17 | Hall Development(SBI)Cash Book     | 01-04-2013 | 1159818.00          | 33228.00            | 1193046.00          | 970458.00           | 31-03-2014 | 222588.00           | 31-03-2014 | 222588.00           | 0.00           |  |
| 18 | Civil Engr. Dept. Cash Book        | 01-04-2013 | 1856638.90          | 1286599.00          | 3143237.90          | 1763218.00          | 31-03-2014 | 1380019.90          | 31-03-2014 | 1380019.90          | 0.00           |  |
| 19 | Examination Cash Book              | 01-04-2013 | 2480778.82          | 4538900.00          | 7019678.82          | 2386107.00          | 31-03-2014 | 4633571.82          | 31-03-2014 | 4633894.32          | -322.50        |  |
| 20 | House building and Motorcycle Loan | 01-04-2013 | 2543893.64          | 157240.00           | 2701133.64          | 0.00                | 31-03-2014 | 2701133.64          | 31-03-2014 | 2701133.64          | 0.00           | Rs.78959.00 was taken less in O.B.of previous A.R. |
| 21 | Civil Testing                      | 01-04-2013 | 37688.00            | 18409.00            | 56097.00            | 12149.00            | 31-03-2014 | 43948.00            | 31-03-2014 | 43948.00            | 0.00           |  |
| 22 | ISTE Cash Book                     | 01-04-2013 | 68367.00            | 4473.00             | 72840.00            | 10000.00            | 31-03-2014 | 62840.00            | 31-03-2014 | 62840.00            | 0.00           |  |
| 23 | Pension Cash Book                  | 01-04-2013 | 3159430.53          | 49155367.00         | 52314797.53         | 44914416.00         | 31-03-2014 | 7400381.53          | 31-03-2014 | 7400381.53          | 0.00           |  |
|    | <b>GRAND TOTAL</b>                 |            | <b>155575723.57</b> | <b>651676153.74</b> | <b>807251877.31</b> | <b>548699529.50</b> |            | <b>258552347.81</b> |            | <b>258552670.31</b> | <b>-322.50</b> |  |

**Comments**

STATEMENT B SHOWING DETAILS OF HEAD WISE RECEIPT OF VSSUT BURLA FOR THE YEAR 2013-14

STATEMENT - B

Details of head wise receipt of various Cash Book is furnished below.

| Sl.No. | Head of Account              | Opening Balance | Receipt      | Remarks/Total |
|--------|------------------------------|-----------------|--------------|---------------|
| I.1    | GENERAL CASH BOOK            |                 |              |               |
| I      | G.I.A.                       |                 |              |               |
|        | (i)I.D.F./D.T.E.T.           |                 | 10000000.00  |               |
|        | (ii)T.E.Q.I.P.               |                 | 18750000.00  |               |
|        | (iii)U.G.C.(Books Grant)     |                 | 4000000.00   |               |
|        | (iv)U.G.C.(Hostel)           |                 | 20000000.00  |               |
|        | (v)U.G.C.(Equipment-Dept)    |                 | 4000000.00   |               |
|        | TOTAL GRANTS                 |                 | 146750000.00 |               |
| II     | OTHER THAN GRANTS            |                 |              |               |
| 1      | Pay of staffs                |                 | 200303000.00 |               |
| 2      | I.T.                         |                 | 7867613.00   |               |
| 3      | P.T.                         |                 | 574495.00    |               |
| 4      | H.R.A. &Const.               |                 | 315492.00    |               |
| 5      | H.B.Loan                     |                 | 120065.00    |               |
| 6      | Inspire Fellowship           |                 | 257600.00    |               |
| 7      | Teaching Club                |                 | 1200.00      |               |
| 8      | Bank Loan                    |                 | 4798732.00   |               |
| 9      | Hire charges                 |                 | 6000.00      |               |
| 10     | Teachers association         |                 | 60.00        |               |
| 11     | G.I.S.                       |                 | 239250.00    |               |
| 12     | L.I.C.                       |                 | 2412436.30   |               |
| 13     | F.A.                         |                 | 4639000.00   |               |
| 14     | G.P.F.                       |                 | 8408438.00   |               |
| 15     | Recovery of excess pay       |                 | 128707.00    |               |
| 16     | DHE Odisha                   |                 | 423811.00    |               |
| 17     | Rent of Guest House          |                 | 13650.00     |               |
| 18     | L/S                          |                 | 43318.00     |               |
| 19     | P/C                          |                 | 68460.00     |               |
| 20     | EMD                          |                 | 107470.00    |               |
| 21     | Cost of tender paper         |                 | 71500.00     |               |
| 22     | Royalty                      |                 | 76947.00     |               |
| 23     | Audit Recovery               |                 | 111673.00    |               |
| 24     | Premise charges by Syn. Bank |                 | 65000.00     |               |

|      |                                  |              |              |              |
|------|----------------------------------|--------------|--------------|--------------|
| 25   | Bank interest                    |              | 2762357.00   |              |
| 26   | Received from MCL                |              | 20000.00     |              |
| 27   | Receipt for Faculties Int        |              | 787250.00    |              |
| 28   | M.Tech./M.Sc. Adms.              |              | 3758930.00   |              |
| 29   | Ph.D. Admission                  |              | 919520.00    |              |
| 30   | Educational Verification         |              | 24800.00     |              |
| 31   | JEE Admission                    |              | 4115000.00   |              |
| 32   | Seminar Fees                     |              | 28521310.00  |              |
| 33   | Collection of fees etc.          |              | 9191101.00   |              |
| 34   | Advertisement                    |              | 49000.00     |              |
| 35   | Samavesh(NALCO)                  |              | 98000.00     |              |
| 36   | Ambulance by Vedanta             |              | 392000.00    |              |
| 37   | Degree certificate               |              | 12750.00     |              |
| 38   | SSC                              |              | 135650.00    |              |
| 39   | CESS                             |              | 6822.00      |              |
| 40   | Pay advance                      |              | 17500.00     |              |
| 41   | Stipend by Meghalaya Govt.       |              | 18800.00     |              |
| 42   | Stipend by Itanagar Govt.        |              | 77600.00     |              |
| 43   | S.D                              |              | 398046.00    |              |
| 44   | Sales Tax                        |              | 302537.00    |              |
| 45   | Others                           |              | 4876326.00   |              |
| 46   | Priyabrata Gold Medal            |              | 250000.00    |              |
| 47   | AIUTU Seminar(MCL)               |              | 20000.00     |              |
| 48   | SCon 10%ST                       |              | 24048.00     |              |
| 49   | TEQUIP Scholarship/Fellowship    |              | 1068000.00   |              |
| 50   | Stipend/Scholarship              |              | 108400.00    |              |
| 51   | Salary(Non-Plan)                 |              | 48993000.00  |              |
| 52   | B.P.GoldMedal                    |              | 250000.00    |              |
| 53   | Failian Relief                   |              | 99733.00     |              |
| 54   | Centre expense(ocs)              |              | 63822.00     |              |
| 55   | Advance adjustment               |              | 4093253.00   |              |
| 56   | P.F.(Voluntary)                  |              | 4557492.00   |              |
| 57   | P.F.(Contributory)               |              | 3319108.00   |              |
|      | TOTAL OF (II)                    |              | 350386072.30 |              |
|      | TOTAL GENERAL CASH BOOK(I+II)    | 108410774.02 | 497136072.30 | 605546846.32 |
| 1.2  | S.B.A/C(Syndicate Bank)          | 336081.97    | 54492.85     | 390574.82    |
| 1.3  | P.G.Scholarship                  | 750545.00    | 5869185.00   | 6619730.00   |
| 1.4  | Students Activity Fund           | 34850.46     | 2983258.88   | 3018109.34   |
| 1.5  | Dean Student Welfare(Syndicate)  | 11680.00     | 6976865.82   | 6988545.82   |
| 1.6  | Dean Student Welfare(S.B.I.)     | 6759.89      | 445933.00    | 452692.89    |
| 1.7  | Hall Development<br>(Syndicate)  | 1925000.00   | 2509117.85   | 4434117.85   |
| 1.8  | Civil Er. Dept.(20%)             | 1344443.69   | 567508.00    | 1911951.69   |
| 1.9  | Hall Development(S.B.I.)         | 1159818.00   | 33228.00     | 1193046.00   |
| 1.10 | Self Finance(Main)               | 19226089.00  | 31671731.00  | 50897820.00  |
| 1.11 | Caution Money                    | 3594581.00   | 2000.00      | 3596581.00   |
| 1.12 | G.P.F.                           | 1146194.62   | 12387651.00  | 13533845.62  |
| 1.13 | TEQIP                            | 3137684.00   | 5619502.65   | 8757186.65   |
| 1.14 | Civil Er.Dept.                   | 1856638.90   | 1286599.00   | 3143237.00   |
| 1.15 | Examination                      | 2480778.82   | 4538900.00   | 7019678.82   |
| 1.16 | House Building @Motor Cycle Loan | 2543893.64   | 157240.00    | 2701133.64   |
| 1.17 | Regular Student Collection       | 2363156.71   | 12001969.09  | 14365125.80  |
| 1.18 | Self Finance Student Collection  | 1797247.32   | 6908643.03   | 8705890.35   |
| 1.19 | Civil Testing(1%)                | 37688.00     | 18409.00     | 56097.00     |
| 1.20 | I.S.T.E.                         | 68367.00     | 4473.00      | 72840.00     |
| 1.21 | Pension                          | 3159430.53   | 49155367.00  | 52314797.53  |
| 1.22 | Current A/C Syndicate Bank       | 184021.00    | 505273.00    | 689294.00    |
| 1.23 | TEQIP (Syndicate Bank)           | 0.00         | 10842734.27  | 10842734.27  |
|      | GRAND TOTAL(1.1 TO 1.23)         | 155575723.57 | 651676153.74 | 807251877.31 |

STATEMENT -C SHOWING DETAILS OF HEAD WISE EXPENDITURE OF VSSUT BURLA FOR THE YEAR 2013-14

## STATEMENT-C

Showing details of head wise expenditure of VSSUT Burla for the year 2013-14

| Sl. No. | Head of Account                     | Opening balance | Expenditure  | Remarks |
|---------|-------------------------------------|-----------------|--------------|---------|
| 1       | 2                                   | 3               | 4            | 5       |
| I.1     | GENERAL CASH BOOK                   |                 |              |         |
| I       | GIA                                 |                 |              |         |
| (i)     | IDF(GIA) Grants                     |                 | 114900015.00 |         |
| (ii)    | U.D.F.                              |                 | 2421251.00   |         |
| (iii)   | E-Learning centre(IDF)              |                 | 5000000.00   |         |
|         | TOTAL GIA                           |                 | 122321266.00 |         |
| 2.      | PT                                  |                 | 574495.00    |         |
| 3       | HR %Cons.                           |                 | 244500.00    |         |
| 4       | Electric charges                    |                 | 4454363.00   |         |
| 5       | HB Loan                             |                 | 486698.00    |         |
| 6       | I.T.                                |                 | 8613426.00   |         |
| 7       | Water Charges                       |                 | 774196.00    |         |
| 6       | Teaching Club                       |                 | 600.00       |         |
| 7       | Bank Loan                           |                 | 4426459.00   |         |
| 8       | Teachers Association                |                 | 30.00        |         |
| 9       | G.I.S.                              |                 | 279500.00    |         |
| 10      | LIC                                 |                 | 2411362.00   |         |
| 11      | Festival Adv.                       |                 | 5220000.00   |         |
| 12      | Scholarship/TEQIP Sch.              |                 | 732940.00    |         |
| 13      | P/C                                 |                 | 197020.00    |         |
| 14      | EMD                                 |                 | 102100.00    |         |
| 15      | S.D.                                |                 | 14747.00     |         |
| 16      | Pay of Staffs                       |                 | 89694827.00  |         |
| 17      | N.M.R.Wages                         |                 | 666765.00    |         |
| 18      | Watch @ ward                        |                 | 2187296.00   |         |
| 19      | L/S ,Other deduction                |                 | 244369.00    |         |
| 20      | Legal expenses                      |                 | 66250.00     |         |
| 21      | Pay of contractual lect.            |                 | 4872550.00   |         |
| 22      | GPF                                 |                 | 12346982.00  |         |
| 23      | Civil Maintainance                  |                 | 444093.00    |         |
| 24      | Telephonne                          |                 | 164864.00    |         |
| 25      | T.A.                                |                 | 392804.00    |         |
| 26      | Library books/Journal               |                 | 173541.00    |         |
| 27      | Stationary/o.c.                     |                 | 235521.00    |         |
| 28      | Pension                             |                 | 49582232.00  |         |
| 29      | Advertisement                       |                 | 742966.00    |         |
| 30      | Water Tax                           |                 | 143439.00    |         |
| 31      | Training @Placement                 |                 | 184012.00    |         |
| 32      | Fuel and maintenance                |                 | 326015.00    |         |
| 33      | Entrance facilities                 |                 | 1100875.00   |         |
| 34      | Purchase of equipment               |                 | 103230.00    |         |
| 35      | SRIC fund                           |                 | 6300.00      |         |
| 36      | Dept.exp(PHY./Elec./EI@TCE)         |                 | 339928.00    |         |
| 37      | Teachers selection Committee        |                 | 856950.00    |         |
| 38      | Transfer to Exam. Cash Book         |                 | 4537700.00   |         |
| 39      | Dept.exp(CSE@PT)                    |                 | 38179.00     |         |
| 40      | Libr. Contg.(GIA)                   |                 | 79104.00     |         |
| 41      | Bank Charges                        |                 | 7116.00      |         |
| 42      | Dept.expMSE@Mechanical              |                 | 35089.00     |         |
| 43      | TDS                                 |                 | 51300000.00  |         |
| 44      | UGC team visit                      |                 | 69528.00     |         |
| 45      | BOM meeting                         |                 | 128558.00    |         |
| 46      | BOS meeting                         |                 | 46451.00     |         |
| 47      | Students Insurance fee              |                 | 330336.00    |         |
| 48      | Others                              |                 | 2939573.30   |         |
| 49      | Advance paid                        |                 | 3269583.00   |         |
| 50      | Academic Council Meeting            |                 | 3750.00      |         |
| 51      | Transfer to Dean Students Welfare   |                 | 2996560.00   |         |
| 51      | Electrical maintenance              |                 | 298611.00    |         |
| 52      | Generator maintenance               |                 | 14146.00     |         |
| 53      | Departmental Expenditure(Chemistry) |                 | 273567.00    |         |
| 54      | 5 <sup>th</sup> Convocation         |                 | 656163.00    |         |
| 55      | Departmental Expenditure(Civil)     |                 | 17418.00     |         |

|      |  |              |              |              |
|------|--|--------------|--------------|--------------|
| 56   | Holding tax  |              | 204729.00    |              |
| 57   | Golden Jubilee Scholarship                         |              | 17500.00     |              |
| 58   | Salary Deduction                                   |              | 38138200.20  |              |
| 59   | Samavesh (Nalco)                                   |              | 98000.00     |              |
| 60   | NPS(TDs)   |              | 3879141.00   |              |
| 61   | GPF Transfer                                       |              | 604082.00    |              |
| 62   | Conference/Seminar                                 |              | 306430.00    |              |
| 63   | Academic fees                                      |              | 214327.00    |              |
| 64   | Campuscleanliness                                  |              | 1843580.00   |              |
| 65   | RTI  |              | 30056.00     |              |
| 66   | Hired vehicle                                      |              | 287228.00    |              |
| 67   | Ph.D.Admission/Entrance                            |              | 148058.00    |              |
| 68   | Other allowance                                    |              | 24000.00     |              |
| 69   | Workshop   |              | 165950.00    |              |
| 70   | Sales tax  |              | 350642.00    |              |
| 71   | Priyabrata Gold Medal                              |              | 250000.00    |              |
| 72   | RCM  |              | 28627.00     |              |
| 73   | Stipend  |              | 328120.00    |              |
| 74   | Departmental Expenditure(Mechanical)               |              | 38832.00     |              |
| 75   | Washing allowance                                  |              | 10330.00     |              |
| 76   | Horticulture                                       |              | 298030.00    |              |
| 77   | Royalty  |              | 259927.00    |              |
| 78   | Fellowship   |              | 764414.00    |              |
| 79   | Guru Prasad Gold Medal                             |              | 250000.00    |              |
| 80   | Transfer to hostel for development fees            |              | 2360000.00   |              |
| 81   | TEQIP Fellowship                                   |              | 108000.00    |              |
| 82   | Failin relief                                      |              | 10000.00     |              |
| 83   | B.Arch evaluation                                  |              | 200000.00    |              |
| 84   | Auditorium maintenance fund                        |              | 1500000.00   |              |
| 85   | Transfer to Aluminium fund                         |              | 392000.00    |              |
| 86   | Regularisation of nom-incorporation of expenditure |              | 2295938.00   |              |
| 87   | OCSEExam.  |              | 63822.00     |              |
| 88   | Remuneration to P.G.Students                       |              | 697034.00    |              |
|      | TOTAL( -II)  |              | 316616674.50 |              |
|      | TOTAL(I+II)  | 166608905.82 | 438937940.50 | 605546846.32 |
| 1.2  | S.B.A/C (Syndicate Bank)                           | 3905574.82   | 0.00         | 3905574.82   |
| 1.3  | P.G.Scholarship                                    | 25585.00     | 6594145.00   | 6619730.00   |
| 1.4  | Students Activity Fund                             | 122109.34    | 2896000.00   | 3018109.34   |
| 1.5  | Dean students welfare(Syndicate)                   | 1671787.82   | 5316758.00   | 6988545.82   |
| 1.6  | Dean students welfare(SBI)                         | 2092.89      | 450600.00    | 452692.89    |
| 1.7  | Hall Development(Syndicate)                        | 2303814.85   | 2130303.00   | 4434117.85   |
| 1.8  | Civil Er. Dept.(20%)                               | 1911951.69   | 0.00         | 1911951.69   |
| 1.9  | Hall Development (SBI)                             | 222588.00    | 970458.00    | 1193046.00   |
| 1.10 | Self Finance                                       | 37126977.00  | 13770843.00  | 50897820.00  |
| 1.11 | Caution Money                                      | 3101581.00   | 495000.00    | 3596581.00   |
| 1.12 | GPF  | 291813.62    | 13242032.00  | 13533845.62  |
| 1.13 | TEQIP  | 3405546.65   | 5351640.90   | 8757186.65   |
| 1.14 | Civil Er.  | 1380019.90   | 1763218.00   | 3143237.00   |
| 1.15 | Exam.  | 4633894.32   | 2385784.50   | 7019678.82   |
| 1.16 | House Building@Motor Cycle Loan                    | 2701133.64   | 0.00         | 2701133.64   |
| 1.17 | Regular Students Collection                        | 14231168.80  | 133957.00    | 14365125.80  |
| 1.18 | Self Finance Students Collection                   | 8690600.35   | 15290.00     | 8705890.35   |
| 1.19 | Civil Testing(1%)                                  | 43948.00     | 12149.00     | 56097.00     |
| 1.20 | ISTE   | 62840.00     | 10000.00     | 72840.00     |
| 1.21 | Pension  | 7400381.53   | 44914416.00  | 52314797.53  |
| 1.22 | CurrentA/C (Syndicate Bank)                        | 676129.00    | 13165.00     | 689294.00    |
| 1.23 | TEQIP(Syndicate Bank)                              | 1547226.27   | 9295508.00   | 10842734.27  |
|      | GRAND TOTAL(1.1 TO 1.23)                           | 258552347.81 | 548699529.50 | 807251877.31 |





**PARA: 5 DETAILS OF CLOSING BALANCE AS PER BANK PASS BOOKS & CASH BOOK BANK BALANCE FIGURE**

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014

| S/no | Name of the Bank                       | A/C No.         | Closing Balance Date As on (dd/mm/yyyy) | Closing Balance in Pass Book(In Rs:) (A) | Closing Balance in Bank Date Cash Book (dd/mm/yyyy) | Closing Balance in Bank as mentioned in Cash Book(In Rs:) (B) | Difference(In Rs:)(A-B) | Remarks                                       |
|------|--|-----------------|---|--|---|---|-------------------------|---|
| 1    | SBI Burla                              | 10754939050     | 31-03-2014                              | 121273017.81                             | 31-03-2014  | 119967457.08  | 1305560.73              | General Cash Book                             |
| 2    | SBI Burla                              | 10754945190     | 31-03-2014                              | 46603669.09                              | 31-03-2014  | 46603669.09   | 0.00                    | General Cash Book                             |
| 3    | SBI Burla                              | 30338875375     | 31-03-2014                              | 222588.00                                | 31-03-2014  | 222588.00   | 0.00                    | Hall Development Cash Book                    |
| 4    | SBI Burla                              | 32331181299     | 31-03-2014                              | 3405546.65                               | 31-03-2014  | 3405546.65  | 0.00                    | TEQIP Cash Book(I)                            |
| 5    | SBI Burla                              | 10754945098     | 31-03-2014                              | 2092.89                                  | 31-03-2014  | 2092.89   | 0.00                    | Dean Student Welfare                          |
| 6    | Syndicate Bank VSSUT Burla             | 80622210002819  | 31-03-2014                              | 2353032.90                               | 31-03-2014  | 2303814.85  | 49218.05                | Hall Development Cash Book                    |
| 7    | SBI Burla                              | 30316935467     | 01-03-2013                              | 25585.00                                 | 31-03-2014  | 25585.00  | 0.00                    | PG Scholarship                                |
| 8    | SBI Burla                              | 10754945871     | 31-03-2014                              | 1911951.69                               | 31-03-2014  | 1911951.69  | 0.00                    | Civil Engr.(20%)                              |
| 9    | Syndicate Bank VSSUT Burla             | 80622210002804  | 31-03-2013                              | 1658705.25                               | 31-03-2014  | 1671787.82  | -13082.57               | Dean Student Welfare                          |
| 10   | Syndicate Bank VSSUT Burla             | 80622200000621  | 31-03-2014                              | 126633.60                                | 31-03-2014  | 122109.34   | 4524.26                 | Student Ativity Fund                          |
| 11   | Andhra Bank Burla                      | 005510011010112 | 31-03-2014                              | 1692086.40                               | 31-03-2014  | 1379419.00  | 312667.40               | Civil Engr.Dept Cash Book                     |
| 12   | Syndicate Bank VSSUT,Burla             | 80622200000728  | 31-03-2014                              | 8690600.35                               | 31-03-2014  | 8690600.35  | 0.00                    | Self Finance Cash Book                        |
| 13   | Andhra Bank,Burla                      | 005510011006637 | 31-03-2014                              | 1442305.99                               | 31-03-2014  | 1442305.99  | 0.00                    | House Building and Motor Cycle Loan Cash Book |
| 14   | Andhra Bank Burla                      | 005510011006636 | 31-03-2014                              | 1258827.65                               | 31-03-2014  | 1258827.65  | 0.00                    | House Building and Motor Cycle Loan           |
| 15   | SBI Burla                              | 10754945167     | 31-03-2014                              | 4050776.26                               | 31-03-2014  | 3101581.00  | 949195.26               | Caution Money Cash Book                       |
| 16   | SBI Burla                              | 10754945815     | 31-03-2014                              | 291813.62                                | 31-03-2014  | 291813.62   | 0.00                    | GPF Cash Book                                 |
| 17   | SBI Burla                              | 30109263001     | 31-03-2014                              | 62840.00                                 | 31-03-2014  | 62840.00  | 0.00                    | ISTE Cash Book                                |
| 18   | Andhra Bank Burla                      | 005510011007237 | 31-03-2014                              | 44020.00                                 | 31-03-2014  | 43948.00  | 72.00                   | Civil 1% Cash Book                            |
| 19   | SBI Burla                              | 10754945860     | 31-03-2014                              | 6921081.53                               | 31-03-2014  | 7400381.53  | -479300.00              | Pension Cash Book                             |
| 20   | SBI Burla                              | 10754945203     | 31-03-2014                              | 4979148.32                               | 31-03-2014  | 4628330.32  | 350818.00               | Examination Cash Book                         |
| 21   | SBI Burla                              | 32058166870     | 31-03-2014                              | 37170311.00                              | 31-03-2014  | 37126977.00   | 43334.00                | Self Finance Cash Book                        |
| 22   | Syndicate Bank VSSUT,Burla             | 80622200000168  | 31-03-2014                              | 390488.82                                | 31-03-2014  | 390488.82   | 0.00                    | Syndicate Bank Cash Book                      |
| 23   | Syndicate Bank Current A/C VSSUT,Burla | 80623070000026  | 31-03-2014                              | 676129.00                                | 31-03-2014  | 676129.00   | 0.00                    | Syndicate Bank Current A/C Cash Book          |
| 24   | Syndicate Bank Saving Bank A/C         | 80622200000732  | 31-03-2014                              | 14231168.80                              | 31-03-2014  | 14231168.80   | 0.00                    | Regular Student Collection Cash Book          |
| 25   | Syndicate Bank Saving Bank A/C Burla   | 806222000001642 | 31-03-2014                              | 1547226.27                               | 31-03-2014  | 1547226.27  | 0.00                    | TEQIP Cash Book Volume-II                     |
|      | <b>GRAND TOTAL</b>                     |                 |   | <b>261031646.89</b>                      |   | <b>258508639.76</b>   | <b>2523007.13</b>       |   |

**Reconciliation**

Pass Book Reconciliation

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On verification it was found that at the end of the financial year i.e. as on Dt.31.03.2014 pass books have not been reconciled w.r.t. closing balance of Cash Book. On this score objection statement was issued vide memo no.06 Dt.22.07.2014 for reconciliation of Pass Book against whom same has not been returned till the close of audit..How ever the excess amount of Rs2523007.13 in all the Pass Books as on Dt.31.03.2014 is due to non credit of interest ,cheque issued by 31.03.2014 as per Cash Book which has not been not encashed from pass books by Dt.31.03.2014 and cheque received and taken to received side of cash book by Dt.31.03.2014 but not accounted for into pass books by Dt.31.03.2014.

Reconciliation in respect of General Cash Book has been worked out by audit and furnished below.

b)Closing balance of pass book as on 31.03.2014 =166571126.17

a) Closing balance of pass book as on 31.03.2014 as per pass book =167876686.90

i)S.B.I.Burla A/C No.10754939050 =121273017.81

ii)S.B.I.Burla A/C No.10754945190 =46603669.09

c)Difference =1305560.73

Reconciliation

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C.B. OF Pass book as per Cash Book as on Dt.31.03.2014 =166571126.17

I-Add

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Cheque issued during the year 2013-14 but not encashed by Dt.31.03.2014 in A/C No.10754939050 ,S.B.I.Burla

| Cheque no./Dt.    | Amount        | Date of encashment      | Remarks |
|-------------------|---------------|-------------------------|---------|
| 259945/10.02.2014 | 400.00        | Beyond 31.03.2014       |         |
| 245916/25.02.2014 | 500.00        | Beyond 31.03.2014       |         |
| 245923/14.03.14   | 113824.00     | Beyond 31.03.2014       |         |
| 245935/20.03.14   | 22879.00      | Beyond 31.03.2014       |         |
| 245949/26.03.14   | 505620.00     | Beyond 31.03.2014       |         |
| 245951/28.03.14   | 9650.00       | 9.4.2014                |         |
| 245952/28.03.14   | 279891.00     | 2.4.2014                |         |
| 245953/28.3.14    | 7317.00       | 11.4.2014               |         |
| 245954/28.3.14    | 32812.00      | 11.4.14                 |         |
| 245955/28.3.14    | 2637.00       | 7.4.14                  |         |
| 245956/28.3.14    | 209535.00     | 10.4.14                 |         |
| 245957/28.3.14    | 8509.00       | 15.4.14                 |         |
| 245958/28.3.14    | 24252.00      | Not encashed by 31.3.14 |         |
| 245959/28.3.14    | 16560.00      | 19.4.14                 |         |
| 245960/28.3.14    | 15000.00      | Not encashed by 31.3.14 |         |
| TOTAL             | (+)1249386.00 |                         |         |

II)Less

-----

i)Amount credited to A/C No.10754945190 on Dt.12.03.2014

but credited to Cash Book on Dt.16.04.2014 (-)195000.00

ii)Bank charges deducted from A/C No.-10754939050 on Dt.20.03.2014

but charged expenditure in General Cash Book on 14.05.2014 (-)1250.00

II)Less

-----

Amount less credited to A/C No. 10754945190,SBI,Burla between

12.02.2014 to 26.02.2014 as shown below

(-)250.00

| General Cash Book Page no. | Amount shown deposited as per Cash Book | Actual amount credited to A/C between 12.2.14 to 26.2.14 | Amount less credited to A/C |
|----------------------------|---|--|-----------------------------|
| 124/11.02.2014             | 25500.00                                | 25250.00   | 250.00                      |

IV)C.B. as per Pass Book as on 31.03.2014

=167624012.17

V)Actual Closing Balance of PassBook as on 31.03.2014 as shown in (b) as above =167876686.90

V)Difference =Rs252674.73

The Local Authority is requested to reconcile the over all difference of Rs1470121.13 which includes Rs 252674.73 of General Cash Book and Rs1217446.40(= Rs2523007.13-Rs1305560.73) of all other cash book as shown above and compliance to audit.Till then Rs1470121.13 is held under objection.

**PARA: 6 STOCK POSITION**

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014

| Sno | Material/ Item | Opening Balance | Receipt | Issued | Closing Balance As per Audit | As per stock register | Remarks |
|-----|----------------|-----------------|---------|--------|------------------------------|-----------------------|---------|
|-----|----------------|-----------------|---------|--------|------------------------------|-----------------------|---------|

**Comments**

Stock register both for Stationery and Durable are not maintained properly.No reference regarding Opening Balance ,Receipt,Issued and Closing Balance are reflected in the stock Register. So it is impressed on the Locall Authority to maintained the stock register so as to ascertained the Closing Balance as and when desire without confusion.An example how to maintain the stationery stock register is furnished below for reference.Further as development works has been done through tender procedure so stock register for buildings materials have not been maintained.

| Vr. No./Dt. | Particulars       | Register (in number) | Papers(in number) | Alpin (in packet) | Thread(in rolls) | Carbon9 (in number) | Gums (in bottle) | butkin (in number) | Envelop in number | Etc. |
|-------------|-------------------|----------------------|-------------------|-------------------|------------------|---------------------|------------------|--------------------|-------------------|------|
|             | O.B.              |                      |                   |                   |                  |                     |                  |                    |                   |      |
|             | Quantity received |                      |                   |                   |                  |                     |                  |                    |                   |      |
|             | Quantity issued   |                      |                   |                   |                  |                     |                  |                    |                   |      |
|             | C.B.              |                      |                   |                   |                  |                     |                  |                    |                   |      |

**PARA: 7 INVESTMENT**

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014

| S/no | Opening Balance of Investment as on (DD MM YYYY) | Opening Balance(In Rs:) | Amount Encashed during the Year under Audit(In Rs:) | Total(In Rs:) | Amount Invested during the Year under Audit(In Rs:) | Closing Balance as per (DD MM YYYY) Audit | Closing Balance Audit(In Rs:) | Closing Balance as per (DD MM YYYY) Investment Ledger | Closing Balance Investment Ledger(In Rs:) | Difference(In Rs:) | Remarks  |
|------|--|-------------------------|---|---------------|---|---|-------------------------------|---|---|--------------------|--|
| 1    | 01-04-2013                                       | 0.00                    | 0.00  | 0.00          | 0.00  | 31-03-2014                                | 0.00                          | 31-03-2014  | 0.00                                      | 0.00               | No investment Cash Book has been maintained by this Institution. |
|      | <b>GRAND TOTAL</b>                               | <b>0.00</b>             | <b>0.00</b>   | <b>0.00</b>   | <b>0.00</b>   |   | <b>0.00</b>                   |   | <b>0.00</b>                               | <b>0.00</b>        |  |

**DETAILS OF CB ON INVESTMENT & Comments :**
Para7-Investment

No Investment Cash Book has been main by this Institution against TDs/F.D. for which for which Opening and Closing Balance for the same could not be arrived.The matter has been stated in the previous Audit Report.What ever has been maintained in the form of ledger that too in a haphazard manner and no where in the Ledger certificate of COF has been obtained.So the above practice may be discontinued.All the TDs/F.D. may be reflected in each financial year of the Investment Cash Book and same must be certified by the Comptroller of Finance.How ever details of balances on TDs/F.D. of this Institution has been verified from the available records and same has stated below.

**(A)INVESTMENT OF GENERAL CASH BOOK**

| SL | Name of the Bank | Account No.     | Date of Opening the A/C | Amount Invested | Rate Of Int. (In %) | Maturit Y date | Maturity value | Rem./ Page No. |
|----|------------------|-----------------|-------------------------|-----------------|---------------------|----------------|----------------|----------------|
| 1  | SBI<br>Burla     | 322013<br>98186 | 21.2.12                 | 89121.00        | 9.25                | 21.2.15        | 117253.00      | p-80           |
| 2  | SBI<br>Burla     | 32244<br>919643 | 19.3.12                 | 206613.00       | 9.25                | 19.3.15        | 271833.00      | P-80           |
| 3  | SBI<br>Burla     | 31126932135     | 8.4.13                  | 81853.00        | 8.75                | 8.4.16         | 106123.00      | P-31<br>(SF)   |
| 4  | SBI<br>Burla     | 31126916306     | 9.4.13                  | 53354.00        | 8.75                | 8.4.16         | 69174.00       | P-32<br>(SF)   |
| 5  | SBI<br>Burla     | 31576304843     | 3.10.13                 | 3036483.00      | 9                   | 29.6.16        | 3874557.00     | P-38<br>SF     |
| 6  | SBI<br>Burla     | 31576304526     | 3.10.13                 | 3036483.00      | 9                   | 29.6.16        | 3874557.00     | P-39<br>(SF)   |
| 7  | SBI<br>Burla     | 31576303952     | 3.10.13                 | 3036483.00      | 9                   | 29.6.16        | 3874557.00     | P-40<br>(SF)   |
| 8  | SBI<br>Burla     | 32054121185     | 25.11.13                | 5785994.00      | 9                   | 25.11.14       | 6324574.00     | P-33<br>(SF)   |
| 9  | SBI<br>Burla     | 32054122087     | 25.11.13                | 5855423.00      | 9                   | 25.11.14       | 6400465.00     | P-34<br>(SF)   |
| 10 | SBI              | 32058157695     | 25.11.13                | 5855423.00      | 9                   | 25.11.14       | 6400465.00     | P-35           |

|    |          |             |          |            |      |          |            |            |
|----|----------|-------------|----------|------------|------|----------|------------|------------|
|    | Burla    |             |          |            |      |          |            | (SF)       |
| 11 | SBI      | 32058158316 | 25.11.13 | 5855423.00 | 9    | 25.11.14 | 6400465.00 | P-36       |
|    | Burla    |             |          |            |      |          |            | (SF)       |
| 12 | SBI      | 31161650670 | 17.12.13 | 1635316.00 | 9    | 17.12.14 | 1787537.00 | P-37       |
|    | Burla    |             |          |            |      |          |            | (SF)       |
| 13 | SBI      | 31576300906 | 3.10.13  | 3037172.00 | 9    | 29.6.16  | 3875436.00 | P-42       |
|    | Burla    |             |          |            |      |          |            | (SF)       |
| 14 | SBI      | 31576303511 | 3.10.13  | 3037172.00 | 9    | 29.6.16  | 3875436.00 | P-43       |
|    | Burla    |             |          |            |      |          |            | (SF)       |
| 15 | SBI      | 32140897240 | 31.7.13  | 5602049.00 | 8.75 | 31.7.14  | 6108548.00 | P-79       |
|    | Burla    |             |          |            |      |          |            | (E-Lrn)    |
| 16 | SBI      | 32055428854 | 26.11.11 | 250000.00  | 9.25 | 26.11.21 | 623861.00  | P-71       |
|    | Burla    |             |          |            |      |          |            | (PGMF)     |
| 17 | SBI      | 31703111271 | 2.1.14   | 305917.00  | 9    | 28.9.16  | 390445.00  | P-70(BBM)  |
|    | Burla    |             |          |            |      |          |            |            |
| 18 | SBI      | 30742795668 | 15.1.12  | 279366.00  | 9.25 | 11.10.14 | 358955.00  | P-20       |
|    | Burla    |             |          |            |      |          |            | (UF)       |
| 18 | SBI B    | 30742795668 | 15.1.12  | 279366.00  | 9.25 | 11.10.14 | 358955.00  | P-20       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 19 | SBI B    | 31126914207 | 8.4.13   | 3617.00    | 8.75 | 8.4.16   | 4689.00    | P-76/1     |
|    | urla     |             |          |            |      |          |            | (Exam)     |
| 20 | SBI B    | 30499104247 | 20.9.13  | 1143176.00 | 9    | 20.9.14  | 1249587.00 | P-76/1     |
|    | urla     |             |          |            |      |          |            | (Exam)     |
| 21 | SBI B    | 30955562494 | 20.9.13  | 10715.00   | 9    | 20.9.14  | 11712.00   | P-76/3     |
|    | urla     |             |          |            |      |          |            | (Exam)     |
| 22 | Andhra B | 005520001   | 26.3.08  | 100000.00  | 8.75 | 26.3.18  | 237635.00  | P-104      |
|    | urla     | 000235      |          |            |      |          |            | (G.J.Sch.) |
| 23 | SBI B    | 30742794904 | 15.1.12  | 189938.00  | 9.25 | 11.10.14 | 244049.00  | P-67(A)    |
|    | urla     |             |          |            |      |          |            | (NPGM)     |
| 24 | SBI B    | 32069335522 | 5.12.11  | 6107.00    | 9.25 | 5.12.14  | 8035.00    | P-67(A)    |
|    | urla     |             |          |            |      |          |            | (NPGM)     |
| 25 | SBI B    | 32244920046 | 19.3.12  | 7183.00    | 9.25 | 19.3.15  | 9450.00    | P-67(A)    |
|    | urla     |             |          |            |      |          |            | (NPGM)     |
| 26 | SBI B    | 32201397535 | 21.2.12  | 21603.00   | 9.25 | 21.2.15  | 28422.00   | P-17       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 27 | SBI B    | 30152795895 | 29.10.13 | 3557505.00 | 9    | 25.7.16  | 4539381.00 | P-16       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 28 | SBI B    | 30152796435 | 29.10.13 | 3557505.00 | 9    |          | 4539381.00 | P-15       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 29 | SBI B    | 31126914762 | 8.4.13   | 6230       | 8.75 | 8.4.16   | 8077.00    | P-14       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 30 | SBI B    | 30152796774 | 29.10.13 | 3557505.00 | 9    | 25.7.16  | 4539381.00 | P-13       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 31 | SBI B    | 31126879985 | 8.4.13   | 636.00     | -    | 8.4.16   | 636.00     | P-12       |
|    | urla     |             |          |            |      |          |            | (UF)       |
| 32 | SBI B    | 30152797042 | 29.10.13 | 3557505.00 | 9    | 25.7.16  | 4539381.00 | P-11       |

|    |            |                 |          |             |      |         |            |                  |
|----|------------|-----------------|----------|-------------|------|---------|------------|------------------|
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 33 | SBI B      | 30152797382     | 29.10.13 | 3557505.00  | 9    | 25.7.16 | 4539381.00 | P-10             |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 34 | SBI B      | 30152797789     | 29.10.13 | 3557505.00  | 9    | 25.7.16 | 4539381.00 | P-9              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 35 | SBI B      | 30152798115     | 29.10.13 | 3557505.00  | 9    | 25.7.16 | 4539381.00 | P-8              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 36 | SBI B      | 30152798386     | 29.10.13 | 3557505.00  | 9    | 25.7.16 | 4539381.00 | P-5              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 37 | SBI B      | 31117836668     | 29.10.13 | 305094.00   | 9    | 25.7.16 | 389300.00  | P-6              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 38 | SBI B      | 31612484500     | 29.10.13 | 323048.00   | 9    | 25.7.16 | 412210.00  | P-7              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 39 | SBI B      | 30152798705     | 29.10.13 | 3557868.00  | 9    | 25.7.16 | 4539207.00 | P-5              |
|    | urla       |                 |          |             |      |         |            | (UF)             |
| 40 | SBI B      | 10755088982     | 13.6.11  | 121856.00   | 8.5  | 13.6.17 | 201844.00  | P-66(JN          |
|    | urla       |                 |          |             |      |         |            | PM)              |
| 41 | SBI B      | 31711098689     | 10.1.14  | 1125.22     | 9    | 6.10.16 | 1436.00    | P-66(JN          |
|    | urla       |                 |          |             |      |         |            | PM)              |
| 42 | SBI B      | 30153006141     | 28.10.13 | 101372.00   | 9    | 27.7.16 | 129351.00  |                  |
|    | urla       |                 |          |             |      |         |            |                  |
| 43 | SBI B      | 30153008740     | 28.10.13 | 92169.00    | 9    | 24.7.16 | 112194.00  | P-3(UF)          |
|    | urla       |                 |          |             |      |         |            |                  |
| 44 | SBI B      | 30153008194     | 28.10.13 | 656664.00   | 9    | 24.7.16 | 837904.00  | P-3(UF)          |
|    | urla       |                 |          |             |      |         |            |                  |
| 45 | SBI B      | 32025512072     | 9.11.11  | 4962866.00  | 9.25 | 9.11.16 | 7839827.00 | P-78PF           |
|    | urla       |                 |          |             |      |         |            |                  |
| 46 | Andhra BNK | 005520016003550 | 30.3.13  | 87000.00    | 9    | 30.3.16 | 113627.47  | P-102AIR@W.<br>P |
| 47 | SBI B      | 10755088631     | 2.8.10   | 34025.00    | 6.5  | 2.8.14  | 34467.00   | P-64(SJ)         |
|    | urla       |                 |          |             |      |         |            |                  |
| 48 | SBI B      | 32292384234     | 19.4.12  | 379985.00   | 9.25 | 19.4.15 | 499932.00  | P-81             |
|    | urla       |                 |          |             |      |         |            |                  |
| 49 | SBI B      | 31117836443     | 31.3.13  | 6090.93     | 8.75 | 31.3.16 | 7897.00    | P-2              |
|    | urla       |                 |          |             |      |         |            |                  |
| 50 | SBI B      | 32644480328     | 7.11.12  | 110729.00   | 8.5  | 7.11.15 | 142510.00  | P-83             |
|    | urla       |                 |          |             |      |         |            |                  |
| 51 | SBI B      | 32542922318     | 13.09.12 | 6446.00     | 8.5  | 13.9.15 | 8296.00    | P-84             |
|    | urla       |                 |          |             |      |         |            |                  |
| 52 | SBI B      | 32524907674     | 6.9.12   | 103583.00   | 9    | 6.9.15  | 135285.00  | P-84             |
|    | urla       |                 |          |             |      |         |            |                  |
| 53 | SBI B      | 32468379419     | 6.8.12   | 58495.00    | 9    | 6.8.15  | 76397.00   | P-85             |
|    | urla       |                 |          |             |      |         |            |                  |
| 54 | Syn.       | 0062458000015/2 | 18.3.14  | 16373217.85 | 9    | 18.3.15 | 17934076.9 | P-96/2           |
|    | Bank       |                 |          |             |      |         |            | (SF)             |
| 55 | UCO        | 07100310007433  | 28.6.13  | 8041436.00  | 9    | 24.9.14 | 8789960.00 | P-100            |

|    |               |                   |          |             |      |          |             |                                |
|----|---------------|-------------------|----------|-------------|------|----------|-------------|--------------------------------|
| 56 | Andhra        | 005520100004863   | 12.10.13 | 3462206.00  | 9    | 12.10.14 | 3788182.00  | (SF)<br>P-111                  |
| 57 | UCO           | 07100310009819    | 20.3.14  | 43543.00    | 9.1  | 20.3.15  | 47643.00    | (Std.F)<br>P-100/1             |
| 58 | Andhra        | 005520100021930   | 23.10.13 | 137559.00   | 9    | 23.10.14 | 150511.00   | (SF)<br>P-109(S.C.<br>L.Host.) |
| 59 | Andhra        | 005520100037685   | 23.7.13  | 3083547.00  | 9    | 23.7.14  | 3643869.00  | P-110(S.C.<br>L.Host.)         |
| 60 | SBI Burla     | 32169177004       | 1.2.14   | 5855820.00  | 9    | 1.2.15   | 6400899.00  |                                |
| 61 | SBI Burla     | 32169177446       | 1.2.14   | 5855820.00  | 9    | 1.2.15   | 6400899.00  | P-61/2(S.C.<br>L.Host.)        |
| 62 | SBI Burla     | 32169177718       | 1.2.14   | 6332943.00  | 9    | 1.2.15   | 6922434.00  | P-62(S.C.<br>L.Host.)          |
| 63 | Andhra        | 005520100021888   | 10.11.13 | 4127022.00  | 9    | 10.11.13 | 4511179.00  | P-107(S.C.<br>L.Host.)         |
| 64 | Andhra        | 005520100021958   | 23.10.13 | 1896412.00  | 9    | 23.10.14 | 2074964.00  | P-108(S.C.<br>L.Host.)         |
| 65 | Andhra        | 005520100021949   | 3.11.13  | 7423437.00  | 9    | 3.11.13  | 8122374.00  | P-105(UF)                      |
| 66 | Andhra        | 005520100017070   | 27.10.13 | 7403178.00  | 9    | 27.10.14 | 8100208.00  | P-106(UF)                      |
| 67 | SBI B<br>urla | 30317248747       | 3.2.14   | 5182.72     | 9    | 4.2.15   | 5667.00     |                                |
| 68 | SBI B<br>urla | 32292385329       | 19.04.12 | 1114.00     | 9.25 | 19.4.15  | 1466.00     | P-67(ANP<br>GM)                |
| 69 | SBI B<br>urla | 30152795341       | 29.10.13 | 3557505.00  | 9    | 25.7.16  | 4539381.00  | P-19UF                         |
| 70 | SBI B<br>urla | 32292432393       | 19.04.12 | 24639.00    | 9.25 | 19.4.15  | 32417.00    | P-18UF                         |
| 71 | Andhra        | 005520100037694   | 23.7.13  | 16702102.49 | 8.85 | 23.7.14  | 17973565.49 | P-103(Pe<br>nsion)             |
| 72 | Andhra        | 005520100037700   | 10.8.13  | 55249.00    | 9    | 10.8.14  | 59727.00    | P-103(Pe<br>nsion)             |
| 73 | Syn.Bank      | 80624050000194/5  | 20.4.13  | 272671.00   | 9    | 20.4.14  | 298052.12   |                                |
| 74 | Syn.Bank      | 80624050000194/6  | 10.5.13  | 283327.00   | 9    | 10.5.14  | 309700.02   |                                |
| 75 | Syn.Bank      | 80624050000194/7  | 4.7.13   | 298150.00   | 9    | 4.7.14   | 325902.79   |                                |
| 76 | Syn.Bank      | 80624050000194/8  | 8.7.13   | 343439.00   | 9    | 8.7.14   | 375407.44   |                                |
| 77 | Syn.Bank      | 80624050000194/9  | 14.8.13  | 297771.00   | 9    | 14.8.14  | 325488.51   |                                |
| 78 | Syn.Bank      | 80624050000194/10 | 11.9.13  | 311675.00   | 9.05 | 19.9.14  | 340853.37   |                                |
| 79 | Syn.Bank      | 80624050000194/11 | 9.10.13  | 319806.00   | 9.05 | 9.10.14  | 349745.58   |                                |
| 80 | Syn.Bank      | 80624050000194/12 | 15.11.13 | 340756.00   | 9.1  | 15.11.14 | 372839.11   |                                |
| 81 | Syn.Bank      | 80624050000194/13 | 13.12.13 | 389519.00   | 9.1  | 13.12.14 | 426193.28   |                                |
| 82 | Syn.Bank      | 80624050000194/15 | 10.1.14  | 346855.00   | 9.1  | 10.1.15  | 379512.35   |                                |
| 83 | Syn.Bank      | 80624470000061/01 | 14.2.14  | 339982.00   | 9.25 | 4.5.15   | 379996.53   |                                |
| 84 | Syn.Bank      | 80624470000061/02 | 19.3.14  | 335190.00   | 9.25 | 6.6.15   | 374640.53   |                                |
| 85 | SBI B<br>urla | 33131452681       | 16.7.13  | 22300000.00 | 8.75 | 16.7.14  | 24316214.00 | P-21(UF)                       |
| 86 | SBI B<br>urla | 32887966352       | 16.3.14  | 16211423.22 | 8.25 | 16.3.15  | 17590815.00 | P-41(SF)                       |
| 87 | SBI B<br>urla | 31893963009       | 14.2.14  | 22948074.00 | 7.75 | 16.5.14  | 23391475.00 | P-53(IDF)                      |



|     |               |                  |            |             |      |            |             |               |
|-----|---------------|------------------|------------|-------------|------|------------|-------------|---------------|
| 88  | SBI B<br>urla | 33108868711      | 6.7.13     | 250000.00   | 8.75 | 6.7.14     | 272603.00   | P-68(PPM)     |
| 89  | SBI B<br>urla | 33433629737      | 7.11.13    | 250000.00   | 9    | 7.11.14    | 273271.00   | P-69(GPM)     |
| 90  | SBI B<br>urla | 31711106704      | 10.1.14    | 18067.00    | 9    | 6.10.16    | 23059.00    | P-82          |
| 91  | SBI B<br>urla | 32690522251      | 4.12.13    | 164357.00   | 9    | 4.12.14    | 179656.00   | P-82          |
| 92  | SBI B<br>urla | 33274589633      | 6.9.13     | 70324.00    | 8.75 | 6.9.16     | 91175.00    | P-83          |
| 93  | SBI B<br>urla | 33215033074      | 16.8.13    | 26593.00    | 8.75 | 16.8.16    | 34478.00    | P-85          |
| 94  | SBI B<br>urla | 33504457132      | 6.12.13    | 299479.00   | 9    | 6.12.14    | 327355.00   | P-86          |
| 95  | SBI B<br>urla | 33429117758      | 5.11.13    | 263040.00   | 9    | 5.11.14    | 287525.00   | P-86          |
| 96  | SBI B<br>urla | 33429158332      | 5.11.13    | 7519.00     | 9    | 5.11.14    | 8219.00     | P-87          |
| 97  | SBI B<br>urla | 33573583518      | 9.1.14     | 13311.00    | 9    | 9.1.15     | 14550.00    | P-87          |
| 98  | SBI B<br>urla | 33663310935      | 18.2.14    | 13527.00    | 9    | 18.2.15    | 14786.00    | P-88          |
| 99  | SBI B<br>urla | 33663307999      | 18.2.14    | 4589.00     | 9    | 18.2.15    | 5016.00     | P-88          |
| 100 | SBI B<br>urla | 33663307615      | 18.2.14    | 33855.00    | 9    | 18.2.15    | 37006.00    | P-89          |
| 101 | SBI B<br>urla | 33663307490      | 18.2.14    | 4139.00     | 9    | 18.2.15    | 4524.00     | P-89          |
| 102 | SBI B<br>urla | 33700263391      | 4.3.14     | 477798.00   | 9    | 4.3.15     | 522273.00   | P-90          |
| 103 | SBI B<br>urla | 33429117758      | 5.11.13    | 263040.00   | 9    | 5.11.14    | 287525.00   | P-90          |
| 104 | SBI B<br>urla | 33663307751      | 18.2.14    | 313188      | 9    | 18.2.15    | 342341.00   | P-90          |
| 105 | SBI B<br>urla | 33429117601      | 5.11.13    | 69436.00    | 9    | 5.11.14    | 75899.00    | P-91          |
| 106 | SBI B<br>urla | 32933586406      | 10.4.13    | 14000000.00 | 8.75 | 10.4.14    | 15265785.00 | P-49(IDF)     |
| 107 | SBI B<br>urla | 31836279935      | 1.1.14     | 2834531     | 7.5  | 15.2.14    | 2860741.00  | P-49OLD       |
| 108 | SYN<br>Bank   | 80624050000437   | 20.6.13    | 29035.42    | 9    | 20.6.14    | 31738.13    | P-96(SF)      |
| 109 | SYN<br>Bank   | 80624580000029/1 | 11.4.13    | 15000000.00 | 9    | 11.4.14    | 16396249.78 | IDF           |
| 110 | SBI,Burla     | 3015298902       | 27.03.2013 | 126227.00   | 8.75 | 27.03.16   | 163654.00   | Caution Money |
| 111 | SBI,Burla     | 30152242217      | 27.03.2013 | 1319321.00  | 8.75 | 27.03.2016 | 1710503.00  | Caution Money |

|     |           |             |            |            |      |            |            |               |
|-----|-----------|-------------|------------|------------|------|------------|------------|---------------|
| 112 | SBI,Burla | 30152193062 | 27.03.2013 | 121941.00  | 8.75 | 27.03.2016 | 158097.00  | Caution Money |
| 113 | SBI,Burla | 30152190390 | 27.03.2013 | 1382920.00 | 8.75 | 27.03.2016 | 1792959.00 | Caution Money |

## (B)Details of Investment of G.P.F. Cash Book

| Sl. | Name oftheA/Cs | A/C Number        | Date of Investment | Amount invested | Rate of Int.in % | Date ofMaturity | Maturity value | Remarks                               |
|-----|----------------|-------------------|--------------------|-----------------|------------------|-----------------|----------------|---------------------------------------|
| 1   | SBI Burla      | 31730920914       | 26.1.14            | 112214.00       | 9                | 22.10.16        | 143220.00      |                                       |
| 2   | SBI Burla      | 31976184419       | 7.10.13            | 154185.00       | 9                | 7.10.14         | 168537.00      |                                       |
| 3   | SBI Burla      | 32017649405       | 3.11.13            | 241929.00       | 9                | 3.11.14         | 264449.00      |                                       |
| 4   | SBI Burla      | 32067861160       | 3.12.13            | 223410.00       | 9                | 3.12.14         | 244206.00      |                                       |
| 5   | UCO            | 07100310007112    | 28.6.13            | 1415540.00      | 8.75             | 28.6.14         | 1543523.00     |                                       |
| 6   | UCO            | 07100310007129    | 28.6.13            | 2320015.00      | 8.75             | 28.6.14         | 2529775.00     |                                       |
| 7   | UCO            | 07100310007136    | 28.6.13            | 1540548.00      | 8.75             | 28.6.14         | 1679834.00     |                                       |
| 8   | UCO            | 07100310007143    | 12.9.13            | 5326225.00      | 9                | 12.9.14         | 5822008.00     |                                       |
| 9   | UCO            | 07100310007167    | 28.6.13            | 444884.00       | 8.75             | 28.6.14         | 485107.00      |                                       |
| 10  | UCO            | 07100310007174    | 12.9.13            | 6094883.00      | 9                | 12.9.14         | 6662215.00     |                                       |
| 11  | UCO            | 07100310007181    | 28.6.13            | 1838363.00      | 8.75             | 28.6.14         | 2004575.00     |                                       |
| 12  | UCO            | 07100310007105    | 28.6.13            | 3149729.00      | 8.75             | 28.6.14         | 3434506.00     |                                       |
| 13  | UCO            | 07100310009628    | 7.7.13             | 101047.00       | 8.75             | 7.7.15          | 120145.00      |                                       |
| 14  | SBI,Burla      | 31581853376       | 5.12.13            | 8037124.00      | 9                | 31.8.16         | 10255382.00    | O.B. taken after deduction of I.T.    |
| 15  | SBI,Burla      | 33515817967       | 12.12.13           | 5531484.00      | 9                | 12.12.16        | 7224395.00     | Previus T.D. has been spilted to two. |
| 16  | SBI,Burla      | 33515818553       | 12.12.13           | 5000000.00      | 9                | 12.12.16        | 6530250.00     | Previus T.D. has been spilted to two. |
| 17  | UCO,Burla      | 07100310007198    | 15.03.14           | 34703.00        | 9.1              | 15.3.15         | 37970.00       |                                       |
| 18  | UCO,Burla      | 07100310007099    | 15.03.14           | 20725695.00     | 9.1              | 15.3.15         | 22677076.00s   |                                       |
| 19  | SBI,Burla      | 31703121971       | 14.10.12           | 95528.00        | 8.5              | 22.04.14        | 108575.00      |                                       |
| 20  | SBI,Burla      | 31768715619       | 6.12.12            | 100291.00       | 8.5              | 14.6.14         | 113989.00      |                                       |
| 21  | SBI,Burla      | 3212472626        | 5.1.14             | 249623.00       | 9                | 5.1.15          | 272859.00      |                                       |
| 22  | SBI,Burla      | 32173062597       | 3.2.14             | 225197.00       | 9                | 3.2.15          | 246159.00      |                                       |
| 23  | SBI,Burla      | 32241992694       | 17.3.14            | 262014.00       | 9                | 17.3.15         | 286403.00      |                                       |
| 24  | SBI,Burla      | 31819088646       | 10.1.13            | 101439.00       | 8.5              | 19.7.14         | 115321.00      |                                       |
| 25  | SBI,Burla      | 31867102279       | 8.2.13             | 105140.00       | 8.5              | 17.8.14         | 119528.00      |                                       |
| 26  | SBI,Burla      | 31924825977       | 15.3.13            | 105938.00       | 8.5              | 21.9.14         | 120799.00      |                                       |
| 27  | SBI,Burla      | 32644480055       | 7.11.12            | 1138.00         | 8.5              | 7.11.15         | 1458.00        |                                       |
| 28  | Syn.Burla      | 80624050000194/14 | 14.12.13           | 227552.88       | 9.1              | 14.12.14        | 248977.60      | A/C.04 changed to14                   |
| 29  | Syn.Burla      | 80624050000194/16 | 18.1.14            | 227920.35       | 9.1              | 18.1.15         | 249379.68      | A/C.194/2 changed to194/16            |
| 30  | Syn.Burla      | 80624050000194/17 | 26.2.14            | 336196.2        | 9.11             | 26.2.15         | 367885.96      | A/C.194/03 changed to194/17           |
| 31  | Syn.Burla      | 80624050000194/18 | 18.3.14            | 291264.36       | 9.11             | 18.3.15         | 318718.86      | A/C.194/4 changed to194/18            |
| 32  | Syn.Burla      | 80624050000150/6  | 20.10.13           | 1093083.32      | 9.05             | 20.11.14        | 1195415.52     | A/C.150/1 changed to150/6             |
| 33  | Syn.Burla      | 80624470000142/1  | 1.3.14             | 1090413.19      | 9.25             | 10.5.15         | 1218750.5      | A/C.150/2 changed to142/1             |
| 34  | SBI,Burla      | 32287266625       | 16.4.13            | 229051.00       | 9                | 16.4.15         | 250372.00      |                                       |
| 35  | SBI,Burla      | 32331005356       | 14.5.13            | 235071.00       | 9                | 14.5.15         | 256952.00      |                                       |
| 36  | SBI,Burla      | 32423006696       | 12.7.13            | 217135.00       | 8.5              | 12.7.14         | 236767.00      |                                       |
| 37  | SBI,Burla      | 32436358102       | 19.7.13            | 212672.00       | 8.5              | 19.7.14         | 231900.00      |                                       |
| 38  | SBI,Burla      | 32473265723       | 8.8.13             | 205455.00       | 8.5              | 8.8.14          | 224031.00      |                                       |
| 39  | SBI,Burla      | 32571240547       | 28.9.13            | 172732.00       | 9                | 28.9.14         | 188810.00      |                                       |
| 40  | SBI,Burla      | 32599772783       | 12.10.13           | 242433.00       | 9                | 12.10.14        | 264999.00      |                                       |
| 41  | SBI,Burla      | 32686167188       | 1.12.13            | 221049.00       | 9                | 1.2.14          | 241625.00      |                                       |
| 42  | SBI,Burla      | 322044987349      | 23.2.14            | 1585036.00      | 9                | 23.2.15         | 1732576.00     |                                       |

|    |           |                   |          |            |      |          |             |  |
|----|-----------|-------------------|----------|------------|------|----------|-------------|--|
| 43 | Syn.Burla | 80624050000150/03 | 25.4.13  | 1000000.00 | 9    | 25.4.14  | 1093083.32  |  |
| 44 | Syn.Burla | 80624050000150/04 | 8.7.13   | 1500000.00 | 9    | 8.7.14   | 1639624.98  |  |
| 45 | Syn.Burla | 80624050000150/05 | 10.10.13 | 1000000.00 | 9.05 | 10.10.14 | 1093617.93  |  |
| 46 | Syn.Burla | 80624050000150/07 | 10.1.14  | 1400000.00 | 9.1  | 10.01.15 | 1531813.84  |  |
| 47 | Syn.Burla | 80624050000142/02 | 19.3.14  | 1000000.00 | 9.25 | 6.6.15   | 1117696.03  |  |
| 48 | SBI,Burla | 33700264601       | 4.3.14   | 185048.00  | 9    | 4.3.15   | 202273.00   |  |
| 49 | SBI,Burla | 31581853127       | 5.12.13  | 9017303.00 | 9    | 31.8.16  | 11506091.00 |  |
| 50 | SBI,Burla | 33429130847       | 5.11.13  | 4413.00    | 9    | 5.11.14  | 4824.00     |  |
| 51 | SBI,Burla | 33504458454       | 6.12.13  | 1177.00    | 9    | 6.12.14  | 1287.00     |  |
| 52 | SBI,Burla | 33372001176       | 11.10.13 | 2681.00    | 9    | 11.10.14 | 2931.00     |  |
| 53 | SBI,Burla | 33274581384       | 6.9.13   | 1974.00    | 8.75 | 6.9.14   | 2152.00     |  |
| 54 | SBI,Burla | 33215058170       | 16.8.13  | 1331.00    | 8.75 | 16.8.16  | 1726.00     |  |
| 55 | SBI,Burla | 32690524214       | 4.12.13  | 1274.00    | 9    | 4.12.14  | 1393.00     |  |
| 56 | SBI,Burla | 33573582638       | 9.1.14   | 6888.00    | 9    | 9.1.15   | 7529.00     |  |
| 57 | SBI,Burla | 33663304853       | 18.2.14  | 10488.00   | 9    | 18.2.15  | 11464.00    |  |
| 58 | SBI,Burla | 33700277166       | 4.3.14   | 1546.00    | 9    | 4.3.15   | 1690.00     |  |
| 59 | SBI,Burla | 33573582718       | 9.1.14   | 171499.00  | 9    | 9.1.15   | 7463.00     |  |
| 60 | SBI,Burla | 33663308223       | 18.2.14  | 45410.00   | 9    | 18.2.15  | 49637.00    |  |
| 61 | SBI,Burla | 32292384993       | 19.4.12  | 224285.00  | 9.25 | 19.4.15  | 295083.00   |  |
| 62 | SBI,Burla | 32069336036       | 5.12.11  | 3074.00    | 9.25 | 5.12.14  | 4044.00     |  |
| 63 | SBI,Burla | 32292384370       | 19.4.12  | 6830.00    | 9.25 | 19.4.15  | 8990.00     |  |
|    |           |                   |          |            |      |          |             |  |
|    |           |                   |          |            |      |          |             |  |
|    |           |                   |          |            |      |          |             |  |

## (B)Details of Investment of G.P.F. Cash Book

| Sl. | Name oftheA/Cs | A/C Number        | Date of Investment | Amount invested | Rate of Int.in % | Date ofMaturity | Maturity value | Remarks                               |
|-----|----------------|-------------------|--------------------|-----------------|------------------|-----------------|----------------|---------------------------------------|
| 1   | SBI Burla      | 31730920914       | 26.1.14            | 112214.00       | 9                | 22.10.16        | 143220.00      |                                       |
| 2   | SBI Burla      | 31976184419       | 7.10.13            | 154185.00       | 9                | 7.10.14         | 168537.00      |                                       |
| 3   | SBI Burla      | 32017649405       | 3.11.13            | 241929.00       | 9                | 3.11.14         | 264449.00      |                                       |
| 4   | SBI Burla      | 32067861160       | 3.12.13            | 223410.00       | 9                | 3.12.14         | 244206.00      |                                       |
| 5   | UCO            | 07100310007112    | 28.6.13            | 1415540.00      | 8.75             | 28.6.14         | 1543523.00     |                                       |
| 6   | UCO            | 07100310007129    | 28.6.13            | 2320015.00      | 8.75             | 28.6.14         | 2529775.00     |                                       |
| 7   | UCO            | 07100310007136    | 28.6.13            | 1540548.00      | 8.75             | 28.6.14         | 1679834.00     |                                       |
| 8   | UCO            | 07100310007143    | 12.9.13            | 5326225.00      | 9                | 12.9.14         | 5822008.00     |                                       |
| 9   | UCO            | 07100310007167    | 28.6.13            | 444884.00       | 8.75             | 28.6.14         | 485107.00      |                                       |
| 10  | UCO            | 07100310007174    | 12.9.13            | 6094883.00      | 9                | 12.9.14         | 6662215.00     |                                       |
| 11  | UCO            | 07100310007181    | 28.6.13            | 1838363.00      | 8.75             | 28.6.14         | 2004575.00     |                                       |
| 12  | UCO            | 07100310007105    | 28.6.13            | 3149729.00      | 8.75             | 28.6.14         | 3434506.00     |                                       |
| 13  | UCO            | 07100310009628    | 7.7.13             | 101047.00       | 8.75             | 7.7.15          | 120145.00      |                                       |
| 14  | SBI,Burla      | 31581853376       | 5.12.13            | 8037124.00      | 9                | 31.8.16         | 10255382.00    | O.B. taken after deduction of I.T.    |
| 15  | SBI,Burla      | 33515817967       | 12.12.13           | 5531484.00      | 9                | 12.12.16        | 7224395.00     | Previus T.D. has been spilted to two. |
| 16  | SBI,Burla      | 33515818553       | 12.12.13           | 5000000.00      | 9                | 12.12.16        | 6530250.00     | Previus T.D. has been spilted to two. |
| 17  | UCO,Burla      | 07100310007198    | 15.03.14           | 34703.00        | 9.1              | 15.3.15         | 37970.00       |                                       |
| 18  | UCO,Burla      | 07100310007099    | 15.03.14           | 20725695.00     | 9.1              | 15.3.15         | 22677076.00s   |                                       |
| 19  | SBI,Burla      | 31703121971       | 14.10.12           | 95528.00        | 8.5              | 22.04.14        | 108575.00      |                                       |
| 20  | SBI,Burla      | 31768715619       | 6.12.12            | 100291.00       | 8.5              | 14.6.14         | 113989.00      |                                       |
| 21  | SBI,Burla      | 3212472626        | 5.1.14             | 249623.00       | 9                | 5.1.15          | 272859.00      |                                       |
| 22  | SBI,Burla      | 32173062597       | 3.2.14             | 225197.00       | 9                | 3.2.15          | 246159.00      |                                       |
| 23  | SBI,Burla      | 32241992694       | 17.3.14            | 262014.00       | 9                | 17.3.15         | 286403.00      |                                       |
| 24  | SBI,Burla      | 31819088646       | 10.1.13            | 101439.00       | 8.5              | 19.7.14         | 115321.00      |                                       |
| 25  | SBI,Burla      | 31867102279       | 8.2.13             | 105140.00       | 8.5              | 17.8.14         | 119528.00      |                                       |
| 26  | SBI,Burla      | 31924825977       | 15.3.13            | 105938.00       | 8.5              | 21.9.14         | 120799.00      |                                       |
| 27  | SBI,Burla      | 32644480055       | 7.11.12            | 1138.00         | 8.5              | 7.11.15         | 1458.00        |                                       |
| 28  | Syn.Burla      | 80624050000194/14 | 14.12.13           | 227552.88       | 9.1              | 14.12.14        | 248977.60      | A/C.04 changed to 14                  |

|    |           |                   |          |            |      |          |             |                                   |
|----|-----------|-------------------|----------|------------|------|----------|-------------|-----------------------------------|
| 29 | Syn.Burla | 80624050000194/16 | 18.1.14  | 227920.35  | 9.1  | 18.1.15  | 249379.68   | A/C.194/2<br>changed<br>to194/16  |
| 30 | Syn.Burla | 80624050000194/17 | 26.2.14  | 336196.2   | 9.11 | 26.2.15  | 367885.96   | A/C.194/03<br>changed<br>to194/17 |
| 31 | Syn.Burla | 80624050000194/18 | 18.3.14  | 291264.36  | 9.11 | 18.3.15  | 318718.86   | A/C.194/4<br>changed<br>to194/18  |
| 32 | Syn.Burla | 80624050000150/6  | 20.10.13 | 1093083.32 | 9.05 | 20.11.14 | 1195415.52  | A/C.150/1<br>changed<br>to150/6   |
| 33 | Syn.Burla | 80624470000142/1  | 1.3.14   | 1090413.19 | 9.25 | 10.5.15  | 1218750.5   | A/C.150/2<br>changed<br>to142/1   |
| 34 | SBI,Burla | 32287266625       | 16.4.13  | 229051.00  | 9    | 16.4.15  | 250372.00   |                                   |
| 35 | SBI,Burla | 32331005356       | 14.5.13  | 235071.00  | 9    | 14.5.15  | 256952.00   |                                   |
| 36 | SBI,Burla | 32423006696       | 12.7.13  | 217135.00  | 8.5  | 12.7.14  | 236767.00   |                                   |
| 37 | SBI,Burla | 32436358102       | 19.7.13  | 212672.00  | 8.5  | 19.7.14  | 231900.00   |                                   |
| 38 | SBI,Burla | 32473265723       | 8.8.13   | 205455.00  | 8.5  | 8.8.14   | 224031.00   |                                   |
| 39 | SBI,Burla | 32571240547       | 28.9.13  | 172732.00  | 9    | 28.9.14  | 188810.00   |                                   |
| 40 | SBI,Burla | 32599772783       | 12.10.13 | 242433.00  | 9    | 12.10.14 | 264999.00   |                                   |
| 41 | SBI,Burla | 32686167188       | 1.12.13  | 221049.00  | 9    | 1.2.14   | 241625.00   |                                   |
| 42 | SBI,Burla | 322044987349      | 23.2.14  | 1585036.00 | 9    | 23.2.15  | 1732576.00  |                                   |
| 43 | Syn.Burla | 80624050000150/03 | 25.4.13  | 1000000.00 | 9    | 25.4.14  | 1093083.32  |                                   |
| 44 | Syn.Burla | 80624050000150/04 | 8.7.13   | 1500000.00 | 9    | 8.7.14   | 1639624.98  |                                   |
| 45 | Syn.Burla | 80624050000150/05 | 10.10.13 | 1000000.00 | 9.05 | 10.10.14 | 1093617.93  |                                   |
| 46 | Syn.Burla | 80624050000150/07 | 10.1.14  | 1400000.00 | 9.1  | 10.01.15 | 1531813.84  |                                   |
| 47 | Syn.Burla | 80624050000142/02 | 19.3.14  | 1000000.00 | 9.25 | 6.6.15   | 1117696.03  |                                   |
| 48 | SBI,Burla | 33700264601       | 4.3.14   | 185048.00  | 9    | 4.3.15   | 202273.00   |                                   |
| 49 | SBI,Burla | 31581853127       | 5.12.13  | 9017303.00 | 9    | 31.8.16  | 11506091.00 |                                   |
| 50 | SBI,Burla | 33429130847       | 5.11.13  | 4413.00    | 9    | 5.11.14  | 4824.00     |                                   |
| 51 | SBI,Burla | 33504458454       | 6.12.13  | 1177.00    | 9    | 6.12.14  | 1287.00     |                                   |
| 52 | SBI,Burla | 33372001176       | 11.10.13 | 2681.00    | 9    | 11.10.14 | 2931.00     |                                   |
| 53 | SBI,Burla | 33274581384       | 6.9.13   | 1974.00    | 8.75 | 6.9.14   | 2152.00     |                                   |
| 54 | SBI,Burla | 33215058170       | 16.8.13  | 1331.00    | 8.75 | 16.8.16  | 1726.00     |                                   |
| 55 | SBI,Burla | 32690524214       | 4.12.13  | 1274.00    | 9    | 4.12.14  | 1393.00     |                                   |
| 56 | SBI,Burla | 33573582638       | 9.1.14   | 6888.00    | 9    | 9.1.15   | 7529.00     |                                   |
| 57 | SBI,Burla | 33663304853       | 18.2.14  | 10488.00   | 9    | 18.2.15  | 11464.00    |                                   |
| 58 | SBI,Burla | 33700277166       | 4.3.14   | 1546.00    | 9    | 4.3.15   | 1690.00     |                                   |
| 59 | SBI,Burla | 33573582718       | 9.1.14   | 171499.00  | 9    | 9.1.15   | 7463.00     |                                   |
| 60 | SBI,Burla | 33663308223       | 18.2.14  | 45410.00   | 9    | 18.2.15  | 49637.00    |                                   |
| 61 | SBI,Burla | 32292384993       | 19.4.12  | 224285.00  | 9.25 | 19.4.15  | 295083.00   |                                   |
| 62 | SBI,Burla | 32069336036       | 5.12.11  | 3074.00    | 9.25 | 5.12.14  | 4044.00     |                                   |
| 63 | SBI,Burla | 32292384370       | 19.4.12  | 6830.00    | 9.25 | 19.4.15  | 8990.00     |                                   |
|    |           |                   |          |            |      |          |             |                                   |
|    |           |                   |          |            |      |          |             |                                   |
|    |           |                   |          |            |      |          |             |                                   |

**PARA: 8 ADVANCE**
**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014**

| S/no | Advance Outstanding as on (DD MM YYYY) | Cashbook Name     | Advance Outstanding (In Rs:) | Advance Paid during the Year under Audit(In Rs:) | Total(In Rs:)     | Advance adjusted during the Year under Audit(In Rs:) | Advance Outstanding as per (DD MM YYYY) Audit | Advance Outstanding Audit (In Rs:) | Advance Outstanding as per (DD MM YYYY) Cash Book | Advance Outstanding Cash Book(In Rs:) | Difference (In Rs:) | Remarks |
|------|--|-------------------|------------------------------|--|-------------------|--|---|------------------------------------|---|---------------------------------------|---------------------|---------|
| 1    | 01-04-2013                             | General Cash Book | 3242182.00                   | 3269583.00                                       | 6511765.00        | 4093253.00   | 31-03-2014                                    | 2418512.00                         | 31-03-2014  | 2418512.00                            | 0.00                |         |
|      | <b>GRAND TOTAL</b>                     |                   | <b>3242182.00</b>            | <b>3269583.00</b>                                | <b>6511765.00</b> | <b>4093253.00</b>                                    |   | <b>2418512.00</b>                  |   | <b>2418512.00</b>                     | <b>0.00</b>         |         |

**Comments :**
**Para No.8.2**

The year wise break up of advances up to Dt.31.03.2014 is furnished below.

| Year             | Amount               |
|------------------|----------------------|
| Prior to 2011-12 | Rs.228909.00         |
| 2011-12          | Rs.35580.00          |
| 2012-13          | Rs.236773.00         |
| 2013-14          | Rs.1917250.00        |
| <b>TOTAL</b>     | <b>Rs.2418512.00</b> |

**Para No.8.3**

Details of advances paid during the year 2013-14 but remain unadjusted till Dt.31.03.2014 is furnished below.

| Sl. No. | Name and designation of the advance holder | Purpose of payment of advance                        | Vr.No./Dt.    | Amount of advance | Remarks/Sanctioning authority | Remarks |
|---------|--|--|---------------|-------------------|-------------------------------|---------|
| 01      | 02   | 03   | 04            | 05                | 06                            |         |
| 01      | Dr.B.B.Pani,P/C,C.T.F.                     | Imprest advance                                      | 15/06.04.13   | 15000.00          | Prof.B.K.Nanda,V.C.           |         |
|         |  | Fuel @ other expences during faculty interview       | 1519/25.02.14 | 20000.00          | Prof.B.K.Nanda,V.C.           |         |
|         |  | Imprest cash and BOS Meeting                         | 727/27.09.13  | 5000.00           | Dr.J.R.Mohanty,Registrar      |         |
|         | <b>TOTAL</b>                               |  |               | <b>40000.00</b>   |                               |         |
| 02      | Prof. S.K.Swain,<br>HOD,Chemistry          | Processing of applications                           | 399/20.07.13  | 1250.00           | Dr.J.R.Mohanty,Registrar      |         |
|         |  | Imprest advance                                      | 649/12.09.13  | 2000.00           | Dr.J.R.Mohanty,Registrar      |         |
|         |  | Ph.D.entrance test.                                  | 891/04.12.13  | 1500.00           | Dr.J.R.Mohanty,Registrar      |         |
|         |  | Ph.D.entrance test.                                  | 1326/30.01.14 | 1300.00           | Dr.J.R.Mohanty,Registrar      |         |
|         |  | B.O.S. meeting                                       | 1328/31.01.14 | 1000.00           | Dr.J.R.Mohanty,Registrar      |         |
|         | <b>TOTAL</b>                               |  |               | <b>7050.00</b>    |                               |         |
| 03      | Sri B.Sohela,<br>Office superintendent     | Postage  | 21/11.04.13   | 2000.00           | Dr.J.R.Mohanty,Registrar      |         |
|         |  | Refreshment for preparation of NIT recruitment       | 718/25.09.13  | 500.00            | Prof.C.R.Ttipathi             |         |
|         |  | Scrutiny of the application forms teaching interview | 1410/12.02.14 | 5000.00           | Prof.B.K.Nanda,VC             |         |
|         |  | Scrutiny of the application forms teaching interview | 1456/22.02.14 | 5000.00           | Prof.B.K.Nanda,VC             |         |

|    |  |   |               |           |                          |  |
|----|--|---|---------------|-----------|--------------------------|--|
|    |  | Refreshment and lunch to the faculties at BBSR during interview | 1474/24.02.14 | 150000.00 | Prof.B.K.Nanda,V.C.      |  |
|    |  | Refreshment and lunch to the faculties at BBSR during interview | 1512/25.02.14 | 5000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL  |   |               | 167500.00 |                          |  |
| 04 | Prof.A.N.Nayak<br>Dean Academic Office       | Imprest advance   | 26/13.04.13   | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL  |   |               | 2000.00   |                          |  |
| 05 | Sri C.D.Patra,steno to Register              | To purchase memento and other items for Utkal Diwas             | 1645/31.03.14 | 3000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL  |   |               | 3000.00   |                          |  |
| 06 | Dr. Siddhatha Panda<br>H.O.D. Electrical Er. | Imprest advance   | 42/15.04.13   | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |  | BOS meeting   | 1338/01.02.14 | 1550.00   | Dr.J.R.Mohanty,Registrar |  |
|    |  | Imprest advance   | 1492/24.02.14 | 8000.00   | Prof.B.K.Nanda,V.C.      |  |
|    |  | Ph.D. Interview   | 1493/24.02.14 | 1175.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL  |   |               | 12725.00  |                          |  |
| 07 | Prof.A.K.Pattnaik,<br>H.O.D.Physics          | Imprest adv.  | 57/17.04.13   | 2000.00   | Prof.B.K.Nanda,V.C.      |  |
|    |  | Scrutiny M.Sc. application forms                                | 432/27.07.13  | 1500.00   | Dr.J.R.Mohanty,Registrar |  |
|    |  | Refreshment for BOS meeting                                     | 435/27.07.13  | 1000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |  | BOS meeting   | 1327/31.1.14  | 2500.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL  |   |               | 7000.00   |                          |  |
| 08 | Sri R.C. Prusty,<br>P/C Elec.                | Purchase of fuel  | 669/17.09.13  | 02.00     | Dr.J.R.Mohanty,Registrar |  |
|    |  | 5 <sup>th</sup> convocation                                     | 1140/16.12.13 | 10000.00  | Prof.B.K.Nanda,VC        |  |
|    | TOTAL  |   |               | 10002.00  |                          |  |
| 09 | K.C.Pradhan,S.I.                             | To purchase materials for experimental work for B.Tech project  | 1586/20.03.14 | 4300.00   | Prof.B.K.Nanda,VC        |  |
|    | TOTAL  |   |               | 4300.00   |                          |  |
| 10 | Dr.S.Agrawal,<br>H.O.D. Electrical @TCE      | Imprest adv.  | 74/24.4.13    | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |  | Imprest adv.  | 1201/02.1.14  | 8000.00   | Prof.B.K.Nanda,VC        |  |
|    | TOTAL  |   |               | 10000.00  |                          |  |
| 11 | Sri Nilamani<br>Bhoi,Reader,RASIP            | Advance for short term course                                   | 87/25.04.13   | 15000.00  | Prof.B.K.Nanda,V.C.      |  |
|    |  | Convocation   | 1149/18.12.13 | 3000.00   | Prof.B.K.Nanda,V.C.      |  |
|    | Total  |   |               | 18000.00  |                          |  |
| 12 | Prof.Debadatta<br>Mishra,PE,MSE              | Welfare ceremoney   | 465/31.07.13  | 2890.00   | Prof.B.K.Nanda,V.C.      |  |
| 13 | Dr.Jayadev Rana,HOD<br>Mechanical            | Refreshment for Ph.D.programme                                  | 96/27.4.13    | 1175.00   | Dr.J.R.Mohanty,Registrar |  |

|    |  |  |                |           |                            |                          |
|----|--|--|----------------|-----------|----------------------------|--------------------------|
|    |  | BOS Meeting  | 449/29.7.13    | 600.00    | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Imprest advance  | 529/13.8.13    | 2000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Ph.D.entranacetest   | 896/5.11.13    | 1425.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | BOS Meeting  | 1339/1.2.14    | 1675.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Ph.D.entranacetest   | 1451/18.2.14   | 1425.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Imprest adv.   | 590/29.08.2013 | 2000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 10300.00  |                            |                          |
| 14 | Sri Suratha<br>Ch.Rout,Sr.Asst.              | To receive degree<br>certificate                                       | 145/9.5.13     | 1000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | To receiveadmission<br>fees from OJEE                                  | 951/15.11.13   | 1500.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 2500.00   |                            |                          |
| 15 | Dr.P.K.Pradhan,HOD,Civil                     | Refreshment for<br>Ph.D.Programme                                      | 101/27.4.13    | 1300.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Scrutiny M.Tech.<br>application form                                   | 383/16.7.13    | 700.00    | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Ph.D.Entrance test   | 890/04.12.13   | 1175.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | BOS Meeting  | 1330/31.1.14   | 475.00    | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 3650.0    |                            |                          |
| 16 | Dr.Jamini Ranjan<br>Mohanty,Reader Chemistry | To conduct national<br>conference                                      | 120/1.5.13     | 15000.00  | Prof.B.K.Nanda,V.C.        |                          |
|    |  | Purchase momento   | 1118/13.12.13  | 10000.00  | Prof.B.K.Nanda,VC          |                          |
|    | TOTAL  |  |                | 25000.00  |                            |                          |
| 17 | Sri S.K.Panda,Sr.Asst.                       | 6thFinance & 8 <sup>th</sup><br>BOM Meeting                            | 121/1.5.13     | 15685.00  | Prof.B.K.Nanda,V.C.        | Out of<br>advRs30000.00  |
|    |  | 10 <sup>th</sup> BOM Meeting   | 214/27.5.13    | 70000.00  | Prof.B.K.Nanda,V.C.        |                          |
|    |  | Adv. For 7 <sup>th</sup> Financial<br>Committee                        | 866/30.10.13   | 90000.00  | Prof.B.K.Nanda,V.C.        | Out of adv<br>Rs90000.00 |
|    | TOTAL  |  |                | 175685.00 |                            |                          |
| 18 | Bijay Ku.Pradhan,Peon                        | Official work at<br>Bhubaneswar  | 1230/06.01.14  | 1000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | Bijay Ku.Pradhan,Peon                        | Faculity interview   | 1517/25.02.14  | 3000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | Total  |  |                | 4000.00   |                            |                          |
| 19 | Govinda Panda,Watchman                       | To attend BOM at<br>BBSR   | 126/01.05.13   | 1000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | To attend BOM at<br>BBSR   | 880/30.10.13   | 1000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 2000.00   |                            |                          |
| 20 | Sri Sukalyan Dash,Prof.I/C<br>Central Store  | Imprest Adv.   | 161/15.05.13   | 10000.0   | Prof.B.K.Nanda,VC          |                          |
|    | TOTAL  |  |                | 10000.00  |                            |                          |
| 21 | Sri Chandramani<br>Singh,Peon                | Faculity interview   | 1516/25.02.14  | 3000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 3000.00   |                            |                          |
| 22 | A.K.Pradhan,Jr.Asst.                         | BOM meeting  | 198/20.05.13   | 1000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 1000.00   |                            |                          |
| 23 | Sri N.C.Mohanty M.E.I/C                      | Imprest adv. For<br>13/14  | 199/22.05.13   | 10000.00  | Prof.B.K.Nanda,VC          |                          |
|    |  | Republic Day<br>Celebration  | 1299/25.01.14  | 5000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    |  | Demonstration of<br>land   | 1518/25.02.14  | 11700.00  | Prof.B.K.Nanda,VC          |                          |
|    | TOTAL  |  |                | 26700.00  |                            |                          |
| 24 | Sri J.B.Sathi,Sr.Asst.                       | Official work at<br>CTC&BBSR   | 741/28.09.13   | 1130.00   | Prof.J.R.Mohanty,Registrar |                          |
|    |  | Faculity interview   | 1514/25.02.14  | 2000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 3130.00   |                            |                          |
| 25 | Sri Bijay Kr. Biswal/S.I.                    | To pay insurance<br>renewal premium for<br>vehicle<br>no.or/02/BL/0818 | 1548/08.03.14  | 16211.00  | Prof.B.K.Nanda,V.C.        |                          |
|    |  | Payment to Smart<br>tours & travels BBSR                               | 1549/08.03.14  | 55000.00  | Prof.B.K.Nanda,V.C.        |                          |
|    | TOTAL  |  |                | 71211.00  |                            |                          |
| 26 | Sri G.C.Pradhan,S.O.                         | Faculity interview   | 1513/25.02.14  | 5000.00   | Dr.J.R.Mohanty,Registrar   |                          |
|    | TOTAL  |  |                | 5000.00   |                            |                          |

|    |   |  |                 |           |                          |  |
|----|---|--|-----------------|-----------|--------------------------|--|
| 27 | Sri Lakshman Meher                        | Accomodation for space aec station                         | 347/9.7.13      | 520.00    | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 520.00    |                          |  |
| 28 | Sri Uddhav Charan Bhoi,Lab.Attn.          | For official work  | 1536/03.03.14   | 800.00    | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 800.00    |                          |  |
| 29 | Prof.M.R.Kabat,HOD CSE @IT                | Imprest adv.   | 1270/18.01.2014 | 10000.00  |                          |  |
|    |   | Imprest adv.   | 426/26.07.13    | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 12000.00  |                          |  |
| 30 | Prof.Debasis Mishra,P/CTelecom            | Instalation of new EPABX System                            | 430/27.07.13    | 5000.00   | Prof.B.K.Nanda,V.C.      |  |
|    |   | Adv. For new EPABX System                                  | 860/28.10.2013  | 14400.00  | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 19400.00  |                          |  |
| 31 | Prof.P.C.Swain,HOD CivilEr.Dept.          | Purchase ofpaper,gum etc.                                  | 1147/18.12.13   | 5000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 5000.00   |                          |  |
| 32 | Sri A.K.Satpathy                          | Purchase of chemical                                       | 857/25.10.13    | 15000.00  | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 15000.00  |                          |  |
| 33 | Sri Asaf Ali Khan,cont.                   | Ongoing 100seated ladies hostel                            | 1023/29.11.13   | 777000.00 | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 777000.00 |                          |  |
| 34 | Prof.Pradeep Kr. DashP/C T@P              | Advance for placement purpose                              | 498/07.08.13    | 25000.00  | Sri D. Minz,COF          |  |
|    |   | Advance for placement purpose                              | 699/21.09.13    | 170000.00 | Prof.B.K.Nanda,V.C.      |  |
|    |   | Placement drive WIPRO                                      | 728/27.09.13    | 60000.00  | Prof.B.K.Nanda,V.C.      |  |
|    |   | To meet T@P expr.  | 856/28.10.13    | 60000.00  | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 315000.00 |                          |  |
| 35 | Prof.Sumanta Panda,HOD ProductionEr.      | Imprest adv.   | 523/12.08.13    | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 2000.00   |                          |  |
| 36 | Sri Balaram Mishra,Sr.Lib.                | Imprest adv.   | 551/17.08.13    | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 2000.00   |                          |  |
| 37 | Sri C.D.Sahoo,Store Keeper                | Purchase L-2 S/W for conducting online test                | 835/22.10.13    | 11000.00  | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 11000.00  |                          |  |
| 38 | Dr.S.K.Sarangi,work shop Supt.            | Imp.adv.   | 556/22.08.13    | 5000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |   | To release machine   | 801/09.10.13    | 47337.00  | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 52337.00  |                          |  |
| 39 | Prof.J.Rana,Dean,F @P                     | Imprestmoney   | 590/29.08.13    | 2000.00   | Prof.B.K.Nanda,V.C.      |  |
|    | TOTAL                                     |  |                 | 2000.00   |                          |  |
| 40 | Sri Rakesh Mohanty,Lect.Comp.Sc.          | 5 <sup>th</sup> Convocation                                | 1134/14.12.13   | 10000.00  | Prof.B.K.Nanda,VC        |  |
|    | TOTAL                                     |  |                 | 10000.00  |                          |  |
| 41 | Sri B.K.Murty,Sr.Steno                    | Imprest adv.   | 747/30.09.13    | 2000.00   | Prof.B.K.Nanda,V.C.      |  |
|    |   | Recharge of d2l-video con                                  | 1141/16.12.13   | 3450.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 5450.00   |                          |  |
| 42 | Sri Harendra Kr. Padhee,Jr.Asst.          | Refreshment for selection of students union representative | 674/17.09.13    | 600.00    | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 600.00    |                          |  |
| 43 | Sri Manish Tripathy,Reader Electrical Er. | Imprest Cash   | 701/21.09.13    | 2000.00   | Dr.J.R.Mohanty,Registrar |  |
|    | TOTAL                                     |  |                 | 2000.00   |                          |  |
| 44 | Sri D Minz,COF                            | Official work at BBSR                                      | 739/28.09.13    | 6000.00   | Prof.B.K.Nanda,V.C.      |  |
|    |   | Official work at BBSR                                      | 760/05.10.13    | 4000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |   | Official work at BBSR                                      | 878/30.10.13    | 5000.00   | Dr.J.R.Mohanty,Registrar |  |
|    |   | Official work at BBSR                                      | 1004/23.11.13   | 6000.00   | Dr.J.R.Mohanty,Registrar |  |



|    |                                     |                                   |               |            |                          |  |
|----|-------------------------------------|-----------------------------------|---------------|------------|--------------------------|--|
|    |                                     | BBSR                              |               |            |                          |  |
|    |                                     | Official work at BBSR             | 1180/24.12.13 | 6000.00    | Dr.J.R.Mohanty,Registrar |  |
|    |                                     | Official work at BBSR             | 1452/18.02.14 | 5000.00    | Dr.J.R.Mohanty,Registrar |  |
|    |                                     | Official work at BBSR             | 1498/24.02.14 | 5000.00    | Dr.J.R.Mohanty,Registrar |  |
|    |                                     | TOTAL                             |               | 37000.00   |                          |  |
| 45 | SriBikash Chandra Nanda             | Purchase of medicine              | 702/23.09.13  | 5000.00    | Prof.B.K.Nanda,VC        |  |
|    |                                     | TOTAL                             |               | 5000.00    |                          |  |
| 46 | Sri G.Ratha,Sr.Inst.                | To purchase petrol and lubricants | 1313/29.01.14 | 13500.00   | Prof.B.K.Nanda,VC        |  |
|    |                                     | TOTAL                             |               | 13500.00   |                          |  |
| 47 | Prof. S.K.Nayak,Co-ordinator M.C.A. | Imprest adv.                      | 721/24.09.13  | 2000.00    | Prof.B.K.Nanda,VC        |  |
|    |                                     | TOTAL                             |               | 2000.00    |                          |  |
|    |                                     | GRAND TOTAL                       |               | 1917250.00 |                          |  |

Advances paid to the individual should be recoup within the same financial year and no further advances should be sanctioned against him/her before. But here the process is violated resulting advances swelling day by day against individuals. As such steps may be taken by the local authority to recoup the above advances immediately. Till then a sum of Rs1917250.00 is held under objection.

Para No.8.4 Advances outstanding for the year 2012-13

From verification it was found that advances to the tune of Rs236773.00 has been still outstanding for adjustment as on Dt.31.03.2014. A list showing details of advances outstanding against individuals for the above period is furnished below.

| Sl.No. | Name of the Advance holder    | Purpose of payment                        | Voucher No./ Date | Amount Of adv. outstanding | Name of Sanctioning authority | Remarks |
|--------|-------------------------------|---|-------------------|----------------------------|-------------------------------|---------|
| 01     | 02                            | 03  | 04                | 05                         | 06                            | 07      |
| 01     | Dr.A.K.Pattnaik,Physics       | BOS meeting                               | 1061/<br>11.02.13 | 500.00                     | Sri B.K.Nanda,V.C.            |         |
|        |                               | TOTAL                                     |                   | 500.00                     |                               |         |
| 02     | Sri Asit Kr. Pradhan,Jr.Asst. | BOM @FC Meeting                           | 119/1405.12       | 60000.00                   | Sri B.K.Nanda,V.C.            |         |
|        |                               | Recruitment of faculties and officers     | 735/14.11.12      | 2000.00                    | Sri B.K.Nanda,V.C.            |         |
|        |                               | For BOM meeting                           | 769/27.11.12      | 30000.00                   | Sri B.K.Nanda,V.C.            |         |
|        |                               | TOTAL                                     |                   | 92000.00                   |                               |         |
| 03     | Dr.A.K.Birisal                | National conference                       | 866/22.12.12      | 20000.00                   | Sri B.K.Nanda,V.C.            |         |
|        |                               | TOTAL                                     |                   | 20000.00                   |                               |         |
| 04     | Sri B.K.Murty,Sr.steno        | Orientation Programme 2012                | 365/11.08.12      | 14380.00                   | Sri B.K.Nanda,V.C.            |         |
|        |                               | TOTAL                                     |                   | 14380.00                   |                               |         |
| 05     | Sri B.K.Pradhan,Peon          | T.A. to CTC                               | 670/01.11.12      | 184.00                     | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | T.A. to CTC                               | 817/10.12.12      | 473.00                     | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | TOTAL                                     |                   | 657.00                     |                               |         |
| 06     | Sri Basistha Sohela,O.S.      | Postage                                   | 23/11.04.12       | 1086.00                    | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | Tour to Cuttack                           | 413/24.08.12      | 875.00                     | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | TA  | 467/11.09.12      | 1000.00                    | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | Recruitment of officers and faculties     | 732/14.11.12      | 2000.00                    | Dr.Jamini Ranjan Mohanty,Reg. |         |
|        |                               | TOTAL                                     |                   | 4961.00                    |                               |         |
| 07     | Sri C.D.Sahu,Store Keeper     | Lane work in campus                       | 258(A)/14.3.12    | 10000.00                   | Sri B.K.Nanda,V.C.            |         |
|        |                               | TOTAL                                     |                   | 10000.00                   |                               |         |
| 08     | Sri G.Ratha,Sr.Instructor     | Consumable articles for sessional classes | 360/10.08.12      | 9100.00                    | Dr.Jamini Ranjan Mohanty,Reg. |         |

|    |   |  |               |           |                               |  |
|----|---|--|---------------|-----------|-------------------------------|--|
|    |   | Articles for semester classes                          | 1136/22.02.13 | 8650.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 17750.00  |                               |  |
| 09 | Sri M.R.Kabat,Co-ordinator,MCA            | Refreshment for BOS members                            | 1016/01.02.13 | 150.00    | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 150.00    |                               |  |
| 10 | Sri Makardhwaj Ranbida,Sr.Asst.           | Despatching interview call letter                      | 684/05.11.12  | 6000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | Despatch work  | 815/10.12.12  | 3000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 9000.00   |                               |  |
| 11 | Sri N.C.Mohanty,C/S                       | Repairing of pump of VC's Qr.                          | 185/23.06.12  | 7185.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | For preparation of tender document                     | 289/17.07.12  | 4360.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | Drawing and Xerox of E-learning centre and guest house | 526/25.09.12  | 5000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | Dev. of Garden of office-cum-residence of V.C.         | 642/19.10.12  | 10000.00  | Sri B.K.Nanda,V.C.            |  |
|    |   | Celebration of Republic Day                            | 642/19.10.12  | 3000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 31545.00  |                               |  |
| 12 | Dr.P.K.Modi,PIC,Central Internet Facility | Imprest  | 488/14.09.12  | 2000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 2000.00   |                               |  |
| 13 | Dr.P.Nanda,Reader                         | Hotel for UGC expert members                           | 237/05.07.12  | 10000.00  | Sri B.K.Nanda,V.C.            |  |
|    | TOTAL                                     |  |               | 10000.00  |                               |  |
| 14 | Sri PrasantaSahoo,Sr.Inst.                | T.A  | 452/06.09.12  | 1000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 1000.00   |                               |  |
| 15 | Dr.P.C.Swain                              | Imprest  | 496/14.09.12  | 2000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | Board of studies                                       | 500/14.9.12   | 300.00    | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | 2012 Convocation                                       | 837/13.12.12  | 10000.00  | Sri B.K.Nanda,V.C.            |  |
|    | TOTAL                                     |  |               | 12300.00  |                               |  |
| 16 | Sri R.N.Kanungo,Sr.Asst.                  | T.A.   | 809/07.12.12  | 3000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    |   | T.A  | 816/10.12.12  | 3000.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 6000.00   |                               |  |
| 17 | Dr.S.K.Sarangi,Workshop Suptd.            | Imprest  | 94/03.05.12   | 30.00     | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 30.00     |                               |  |
| 18 | Sri Dinabandhu Minz,COF                   | T.A.   | 252/11.07.12  | 3000.00   | Prof.B.K.Nanda,V.C.           |  |
|    | TOTAL                                     |  |               | 3000.00   |                               |  |
| 19 | Shanti Behera                             | Expenses for Invocation Inaug.                         | 823/11.12.12  | 1500.00   | Dr.Jamini Ranjan Mohanty,Reg. |  |
|    | TOTAL                                     |  |               | 1500.00   |                               |  |
|    | GRAND TOTAL                               |  |               | 236773.00 |                               |  |

**Responsible Person for this paragraph**

| S/no | Name                     | Designation                              | Adress                               | Amount(In Rs.) |
|------|--------------------------|--|--------------------------------------|----------------|
| 1    | Dr.A.K.Pattnaik          | Prof.                                    | Prof.Dept. of Physics<br>VSSUT,Burla | 500.00         |
| 2    | Sri Asit Kumar Pradhan   | Jr.Asst.                                 | A/S VSSUT Burla                      | 92000.00       |
| 3    | Dr.A.K.Birisal           | Faculty                                  | VSSUT,Burla                          | 20000.00       |
| 4    | Sri B.K.Murty            | Sr.Steno                                 | VSSUT,Burla                          | 14380.00       |
| 5    | Sri B.K.Pradhan          | Peon                                     | VSSUT,Burla                          | 657.00         |
| 6    | Sri Basistha Sohela      | Office Supt.                             | VSSUT,Burla                          | 4961.00        |
| 7    | Sri C.D. Sahoo           | Store Keeper                             | VSSUT,Burla                          | 10000.00       |
| 8    | Sri G.Ratha              | Sr.Instructor                            | VSSUT.Burla                          | 17750.00       |
| 9    | Prof.M.R.Kabat           | Prof.                                    | M.C.A.Dept. VSSUT,Burla              | 150.00         |
| 10   | Sri Makardhwaj Ranbida   | Sr.Asst.                                 | VSSUT,Burla                          | 9000.00        |
| 11   | Sri Nimai Charan Mohanty | Campus Supervisor                        | VSSUT ,Burla                         | 31545.00       |
| 12   | Dr.P.K.Modi              | Faculty/PIC Central<br>Internet Facility | VSSUT,Burla                          | 2000.00        |
| 13   | Dr.P.Nanda Reader        | Faculty                                  | VSSUT,Burla                          | 10000.00       |
| 14   | Sri Prasanta Sahoo       | Sr. Instructor                           | VSSUT,Burla                          | 1000.00        |
| 15   | Dr.P.C.Swain             | Prof.                                    | VSSUT,Burla                          | 12300.00       |
| 16   | Sri R.N.Kanungo          | Sr.Inst.                                 | VSSUT,Burla                          | 6000.00        |
| 17   | Dr.S.K.Sarangi           | Prof.                                    | Work Shop Suptd.<br>VSSUT,Burla      | 30.00          |
| 18   | Shanti Behera            | Staff                                    | VSSUT,Burla                          | 1500.00        |
| 19   | Sri Dinabandhu Minz      | COF                                      | VSSUT,Burla                          | 3000.00        |

**PARA: 9 GRANTS**

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014

| Sno | Grants Outstanding as on (DD MM YYYY) | Grants Outstanding (In Rs:) | Grants Received during the Year under Audit(In Rs:) | Total(In Rs:)       | Grants Spent during the Year under Audit(In Rs:) | Grants unspent as on (DD MM YYYY) | Grants unspent (In Rs:) | Remarks |
|-----|---------------------------------------|-----------------------------|---|---------------------|--|-----------------------------------|-------------------------|---------|
| 1   | 01-04-2013                            | 3792700.00                  | 146750000.00  | 150542700.00        | 122321266.00                                     | 31-03-2014                        | 28221434.00             |         |
|     | <b>GRAND TOTAL</b>                    | <b>3792700.00</b>           | <b>146750000.00</b>                                 | <b>150542700.00</b> | <b>122321266.00</b>                              |                                   | <b>28221434.00</b>      |         |

**Comments :**

No grants register was maintained by the institution. So it is impressed upon on the Local Authority to maintain the Grants Receiving Register properly showing all references there in.

**PARA: 10 UTILISATION CERTIFICATE**

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY - 2013-2014

| S/no | U.C Outstanding as on (DD MM YYYY) | U.C Outstanding(In Rs:) | U.C due for submission during the period under Audit(In Rs:) | Total(In Rs:)       | U.C Submitted during the period under Audit(In Rs:) | U.C needs to be submitted as on outstanding as on (DD MM YYYY) | U.C needs to be submitted as on outstanding (In Rs:) | Remarks |
|------|------------------------------------|-------------------------|--|---------------------|---|--|--|---------|
| 1    | 01-04-2013                         | 17927000.00             | 122321266.00   | 140248266.00        | 20119290.00   | 31-03-2014   | 120128976.00   |         |
|      | <b>GRAND TOTAL</b>                 | <b>17927000.00</b>      | <b>0.00</b>  | <b>140248266.00</b> | <b>20119290.00</b>                                  |  | <b>120128976.00</b>                                  |         |

**Comments :**

Details of U.C. submitted during the year 2013-14 is furnished below.

| Sl. No. | Sanctioned Order No.            | Year of receiving G.I.A. | Lr.No. of submission of U.C.     | Amount of U.C. submitted | Remarks |
|---------|---------------------------------|--------------------------|----------------------------------|--------------------------|---------|
| 01      | IV-TTI/2011/6084 /Dt.28.04.2011 | 2011-12                  | VSSUT/AC/1556/2013/Dt.11.07.2013 | 20119290.00              |         |
|         | <b>TOTAL</b>                    |                          |                                  | 20119290.00              |         |

From the above it is apparent that amount of U.C. outstanding is swelling day by day which has even came to Rs120128976.00 as on Dt.31.03.2013. Further during the year 2013-14 out of the GIA received Rs 122321266.00 has been spent for which no U.C. was submitted. So steps may be taken submit U.C. against the above expences. Till then Rs 122321266.00 is held under objection. Further it is advised to spent the whole of GIA received during the same financial year.

**PARA: 11 MISAPPROPRIATION & DEFALCATION**
**11.1 - Misappropriation of cash**

On checking the totalling of SBI cash book of Arundhati Hall of Residence it was observed that on dt.03-02-2014 (CBP-51 ) the receipt total of cash was shown Rs 289540.00 instead of actual total of Rs 299540.00 resulted in misappropriation of Rs 10000.00 .

On issuing of objection statement No 18/ dt 22-10-2014 the local authority replied that the objected amount of Rs 10000.00 has been recovered from Sri D K Swain Senior clerk vide MR No4232/19-10-2014 and taken to cash book page No 72/29-10-2014. So the para is dropped.

**11.2 - Misappropriation of cash**

. From verification of the cash book and pass book of Atri Hall of Residence it was revealed that one cheque bearing No.22006965/03-02-2011 amounting to Rs50500.00 (CBP-78) and another one bearing No.22006992/14-03-2014 amounting to Rs 10000.00 (CBP82) were withdrawn from bank but not accounted for in cash book. Again by way of balancing error the closing balance of cash at CBP-82/13-03-2014 was reflected Rs37117.00 instead of Rs 36617.00 exhibiting Rs500.00 in excess. As a result Rs60000.00 (50500+10000-500) had been misappropriated .

On issuing of objection statement No 22/17-11-2014 the local authority replied that the objected amount of Rs 60000.00 has been recovered vide MR No 701/dt21-11-2014 and credited to cash book page No/dt . So the para is dropped.

**11.3 - Misappropriation of cash**

On checking the cash books of the Atri Hall of Residence for the Year 2013-14 with reference to Money Receipt it was noticed that some cash collected from the boarders of the hostel amounting to Rs 13531.00 was not accounted for in cash book which is highly irregular and violates the Rule-3 of OGFR. The details of money receipt no., dates, amount etc are listed below.

| MR No./Date    | Name of boarders/ ROLL No.   | Amount   |
|----------------|------------------------------|----------|
| 692/20-01-2014 | Kereseto Hibo (11/486)       | 2731.00  |
| 693/20-01-2014 | K. Yimchuger (11/487)        | 3911.00  |
| 694/28-01-2014 | Swastik Bandopadhya (10/112) | 1500.00  |
| 695/28-01-2014 | A Nanda (11/268)             | 2400.00  |
| 696/28-01-2014 | S K Pradhan (11/267)         | 2989.00  |
| Total          |                              | 13531.00 |

In response to audit objection memo No 23/17-11-2014 the local authority replied that the objected amount of Rs 13531.00 has been recovered from Sri Akshaya Samal, dealing assistant vide MR No 701/21-11-2014 and credited to cash book page No 22/21-11-2014 . So the para is dropped.

**11.4 - Misappropriation of cash**

On balancing of cash column of Syndicate cash book of Atri Hall of Residence it was noticed that the closing balance of cash reflected at cash book page 60/ dt20-06-2013 was Rs98052.00 instead of actual Rs 103428.00 resulted in misappropriation of cash amounting to Rs 5376.00.

In response to audit objection memo No 24/17-11-2014 the local authority replied that the objected amount of Rs 5376.00 has been recovered from Sri Akshaya Samal, dealing assistant vide MR No 701/21-11-2014 and credited to cash book page No 22/ 21-11-2014 . So the para is dropped.

**11.5 - Misappropriation of cash**

On checking the cash books of the Angira Hall of Residence for the year 2013-14 with reference to MR books it was noticed that cash collected from the boarders of the Hostel amounting to Rs2720.00 vide Mr No.298 to 300 was not accounted for in the cash books which is highly irregular and violating Rule-3 of OGFR . The details of MRs are listed below.

| MR No./date    | Name of boarders | Amount  |
|----------------|------------------|---------|
| 298/20-02-2014 | R Meher          | 280.00  |
| 299/07-03-2014 | A Nayak          | 1600.00 |
| 300/07-03-2014 | Dr. G Nath       | 840.00  |
| Total          |                  | 2720.00 |

On issuing of audit objection memo No 26/19-11-2014 on the score the local authority replied that the objected amount will be recovered from concerned person after verification. As such till realisation of the objected amount of Rs 2720.00 is suggested for recovery from Sri Manas Nayak ,Senior clerk.

**Responsible Person for this paragraph**

| Sino | Name        | Designation  | Adress      | Amount(In Rs:) |
|------|-------------|--------------|-------------|----------------|
| 1    | Manas Nayak | Senior clerk | VSSUT,Burla | 2720.00        |

**11.6 - Misappropriation of cash**

On checking of MR books with reference to cash books of Angira Hall of Residence it was observed that cash collected from boarders vide MR no.206 to 228 amounting to Rs 40243.00.00 but in SBI cash book on dated 03-05-2013 (CBP-04) the amount shown received was Rs 36743.00 resulted in misappropriation of cash Rs 3500.00 which is highly irregular and violating Rule-3 of OGFR.

Again the closing balance of cash in SBI cash book on dt 27-05-2013 was reflected Rs 8925.00instead of actual Rs 9925.00 by way of enhancing the expenditure total to Rs 139468.00 instead of actual total of Rs138468.00 which was resulted in misappropriation of cash Rs1000.00.

So a total cash of Rs 4500.00 (3500+1000 ) was misappropriated .

On issuing of audit objection memo No 25/19-11-2014 on the score the local authority replied that the objected amount may be recovered from concerned person after verification. As such till realisation of the objected amount of Rs 4500 .00 is suggested for recovery from Sri Manas Nayak ,Senior clerk.

**Responsible Person for this paragraph**

| Sino | Name        | Designation  | Adress      | Amount(In Rs:) |
|------|-------------|--------------|-------------|----------------|
| 1    | Manas Nayak | Senior clerk | VSSUT,Burla | 4500.00        |

**11.7 - Misappropriation of cash**

On checking the SBI cash book of the Kratu Hall of Residence for the Year 2013-14 with reference to Money Receipt it was noticed that the cash collected from the boarders of the hostel was not properly accounted for in the cash book but a less amount had been credited which resulted in misappropriation of Rs 20340.00 which is highly irregular and violates the Rule-3 of OGFR. The details of money receipt no., dates, amount etc are furnished below below.

| MR No / Date                                  | Cash book page/Date | Actual amount received | Amount shown in cash book | Less amount credited |
|---|---------------------|------------------------|---------------------------|----------------------|
| 283 to 300 /<br>14-05-2013 to<br>12-07-2013   | 23 / 14-05-2013     | 48450.00               | 47450.00                  | 1000.00              |
| 374 to 400 /<br>03-05-2013 to<br>09-05-2013   | 23 / 03-05-2013     | 105750.00              | 90910.00                  | 14840.00             |
| 1552 to 1600 /<br>12-07-2013 to<br>28-07-2013 | 24 / 25-07-2013     | 81100.00               | 76600.00                  | 4500.00              |
| Total   |                     | 235300.00              | 214960.00                 | 20340.00             |

On issuing of audit objection memo No 30/24-11-2014 on the score the local authority did not reply. As such till realisation of the objected amount of Rs 20340.00 is suggested for recovery from Sri Pahali Rout ,Senior clerk.

**Responsible Person for this paragraph**

| Sno | Name        | Designation  | Adress      | Amount(In Rs:) |
|-----|-------------|--------------|-------------|----------------|
| 1   | Pahali Rout | Senior clerk | VSSUT,Burla | 20340.00       |

**PARA: 12 LOSS OF STOCK & STORE**
**12.1 - LOSS OF STOCK AND STORES**

Loss of stock and stores are not found in this institution.

**PARA: 13 AUDIT OF RECEIPTS**
**13.1 - Comments on Receipts**

All the MR books and DCRs are checked with reference to cash books and found correct. However as Demand Collection and Balance register of students fees collection has not been maintained by the institution receipt figures were could not be compared with the demand figure.

**PARA: 14 AUDIT OF EXPENDITURE**
**14.1 - Excess consumption of fuel**
Excess consumption of fuel

On checking the log book of the vehicle having Regd. No.OR-02-BL 0818 (Innova) with reference to fuel vouchers, stock registers and connected records it was found that during the year 2013-14, 456.87 litre of excess diesel shown consumed by the driver Sri Niranjana Nayak the details of which listed below.

- 1) Total distance travelled from 01-04-2013 to 31-03-2014      18632 km



|   |             |
|---|-------------|
| 2) Fuel on the tank on dt 01-042013                         | 23.70 lit   |
| 3) Fuel filled in the tank during 2013-14 (as per vouchers) | 1827.32 lit |
| 4) Fuel balanced in the tank as on 31-03-2014               | 14.00 lit   |
| 5) Fuel shown consumed in the log book (2+3-4 )             | 1837.02 lit |
| 6) Fuel consumed as per mileage fixed @ 13.5 km/ lit        | 1380.15 lit |
| 7) Excess consumption of fuel (5-6)                         | 456.87 lit  |

As revealed from the official records, a technical committee constituted by the University to determine the mileage of the vehicle submitted its report after testing the fuel consumption of the vehicle. Then, the driver Sri Niranjana Nayak was ordered vide letter No. VSSUT/CTF/3516/2013 dt 14-09-2013 to maintain the log book showing the fuel consumption @ 13.5 km/lit from dt 22-08-2012. Violating the order he consumed excess excess diesel of 456.87 liter as mentioned above. So the cost of 456.87 liter of diesel @ Rs 54.99 amounting to Rs 25123.00 suggested for recovery.

On issuing of audit objection memo No 17/20-10-2014 the local authority replied that person concerned has been communicated. So for this lapses Rs 25123.00 has been suggested for recovery from Sri Niranjana Nayak, driver.

**Responsible Person for this paragraph**

| Sino | Name            | Designation | Address     | Amount(In Rs.) |
|------|-----------------|-------------|-------------|----------------|
| 1    | Niranjana Nayak | Driver      | VSSUT,Burla | 25123.00       |

**14.2 - IRREGULARITY ON PAYMENT OF E.P.F.**

In the following vouchers of General Cash Book a sum of Rs87232.34 was paid to &quot;Bharati Neat @Clean Services &quot; Rourkela towards deposit of E.P.F. of the engaged workers. But, no records in support of credit of the above E.P.F. was produced to audit.

| Vr.No./Dt.    | Bill.No./Dt        | Rate of wage allowed to BNCS |                |               |           |        | Mandays worked | Amount of E.P.F. allowed | Remarks |
|---------------|--------------------|------------------------------|----------------|---------------|-----------|--------|----------------|--------------------------|---------|
|               |                    | Wage                         | E.P.F.(13.61%) | E.S.I.(4.75%) | S.Tax(2%) | Total  |                |                          |         |
| 01            | 02                 | 03                           | 04             | 05            | 06        | 07     | 08             | 09                       | 10      |
| 643/7.9.13    | B.N.C.S./103/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 617            | 12592.97                 |         |
| 643/7.9.13    | B.N.C.S./122/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 775            | 15817.75                 |         |
| 800/9.10.13   | B.N.C.S./160/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 712            | 14531.92                 |         |
| 800/9.10.13   | B.N.C.S./133/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 668            | 13633.88                 |         |
| 1197/31.12.13 | B.N.C.S./187/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 713            | 14552.33                 |         |
| 1197/31.12.13 | B.N.C.S./214/13-14 | 150.00                       | 20.41          | 7.12          | 3.55      | 181.08 | 789            | 16103.49                 |         |
|               |                    |                              |                |               |           |        | TOTAL          | 87232.34.00              |         |

in response to objection statement No.20/Dt.27.10.2014 the Local Authority replied that &quot;M.E. and M/S Bharati Neat @ Clean Service are intimated to produce records.&quot;How ever till the close of audit same has not been produced to audit.As such till production of the same Rs87232.00 is suggested for recovery from M/S Bharti Neat @Clean Services ,Rourkela.However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Sino | Name | Designation | Address | Amount(In Rs.) |
|------|------|-------------|---------|----------------|
|------|------|-------------|---------|----------------|

|   |                                  |                      |                          |          |
|---|----------------------------------|----------------------|--------------------------|----------|
| 1 | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 21808.00 |
| 2 | Sri Dinabandhu Minz              | COF                  | VSSUT,Burla              | 21808.00 |
| 3 | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 21808.00 |
| 4 | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 21808.00 |

**14.3 - Less Realisation of House Rent from Quaters**

1. Ref GO No 6773/ Rent/ Esst, Gen 30/2008 Dt 01-11-2008 and

2. Fin Deptt VOR No 3972/ P & F Dt 06-09-2008

During checking of the pay acquittance rolls with reference to cash book for the year 2013-14 it came to the notice that a total sum of Rs 301946.00 was less realized towards House Rent from the allottees of staff quarters of VSSUT, Burla. The less realization of House rent could not be

admitted in audit and may be realized from the concerned staff as quoted against each and credited in University Account. The details are furnished below.

| Sl.No. | Name & designation     | GP    | Period         | HR due | HR realised | Less deduction | Total | Remarks |
|--------|------------------------|-------|----------------|--------|-------------|----------------|-------|---------|
|        | Officer                |       |                |        |             |                |       |         |
| 1.     | Dinabandhu Minj,COF    | 6600  | 03/13 to 02/14 | 200    | 90          | 110x12=1320    | 1320  |         |
|        | Total                  |       |                |        |             |                | 1320  |         |
|        | Teaching staff         |       |                |        |             |                |       |         |
| 1.     | C R Tripathy,Prof      | 10000 | 03/13 to02/14  | 610    | 290         | 320x12=3840    | 3840  |         |
| 2.     | B B Pati,Prof          | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 3.     | R P Panda,Prof         | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 4.     | A N Nayak,Prof         | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 5.     | P K Hota,Prof          | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 6.     | J Rana,Prof            | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 7.     | P C Swain,Prof         | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 8.     | Debabrata Mishra,Prof  | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 9.     | S K swain,Prof         | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 10.    | P K Modi,Prof          | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 11.    | P K Pradhan,Prof       | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 12.    | P R Dash,Prof          | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 13.    | P K Dash,Prof          | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 14.    | P K Kar,Prof           | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 15.    | S B Mahapatra,Reader   | 9000  | do             | 610    | 290         | 320x12=3840    | 3840s |         |
| 16.    | U R Jena,Reader        | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 17.    | N P Rath,Reader        | do    | do             | 610    | 290         | 320x12=3840    | 3840  |         |
| 18.    | B B Pani,Reader        | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 19.    | Debasish Mishra,Reader | 8000  | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 20.    | Sukalyan Dash,Reader   | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 21.    | Sudhir Rath,Lect       | 9000  | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 22.    | Rakesh Mohanty, do     | 7000  | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 23.    | M R Kabat,do           | 8000  | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 24.    | Santi Behera,do        | 7000  | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 25.    | Kabiraj Sethi,do       | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 26.    | H S Behera,do          | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 27.    | Anjana Acharya,do      | do    | do             | 410    | 200         | 210x12=2520    | 2520  |         |
| 28.    | Sudhansu Dash,Prof     | 10000 | 10/13 to 02/14 | 610    | 290         | 320x5=1600     | 1600  |         |
| 29.    | Sidharth Panda,do      | do    | 03/13 to 02/14 | 610    | 290         | 320x12=3840    | 3840  |         |
| 30.    | Debabrata Dhruopal,do  | do    | 07/13 to 02/14 | 610    | 290         | 320x8=2560     | 2560  |         |

|     |                              |      |                   |     |     |             |        |  |
|-----|------------------------------|------|-------------------|-----|-----|-------------|--------|--|
| 31. | S K Sarangi,Reader           | 8000 | 03/13 to<br>02/14 | 410 | 200 | 210x12=2520 | 2520   |  |
| 32. | R K Sahu,do                  | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 33. | C R Mohanty,do               | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 34. | A Mohanty,do                 | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 35. | M Tripathy,do                | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 36. | A K Barisal,do               | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 37. | B B Mangaraj,do              | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 38. | Jyoti Ranjan Mohanty,do      | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 39. | Ajay Ku Nayak,do             | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 40. | Nilamani Bhoi,do             | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 41. | Trinath Biswal,do            | do   | 10/13 to<br>02/14 | 200 | 90  | 110x5=550   | 550    |  |
| 42. | A K Patnaik,do               | do   | 03/13 to<br>02/14 | 410 | 200 | 210x12=2520 | 2520   |  |
| 43. | M K Jena,Lect                | 7000 | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 44. | S K Panigrahi,do             | do   | 03/13 to<br>01/14 | 410 | 200 | 210x11=2310 | 2310   |  |
| 45. | Banaja Mohanty,do            | do   | 03/13 to<br>02/14 | 410 | 200 | 210x12=2520 | 2520   |  |
| 46. | P K Pradhan,do               | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 47. | B K Rana,do                  | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 48. | S P Sahu,do                  | 6000 | do                | 290 | 140 | 150x12=1800 | 1800   |  |
| 49. | Ashapura Dash,do             | do   | do                | 290 | 140 | 150x12=1800 | 1800   |  |
| 50. | Bidyadhar Rout,do            | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 51. | Punyapriya Mishra,do         | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 52. | Diptimayee Kohnar,do         | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 53. | Mamun Mishra,do              | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 54. | Bikramaditya Dash,do         | do   | do                | 220 | 90  | 110x12=1320 | 1320   |  |
| 55. | Ganeswar Nath,do             | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 56. | Deepak Ku Lal,do             | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 57. | Ramesh Ch Prusty,do          | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 58. | Sasmita Behera,do            | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 59. | Sanjib Ku Nayak,do           | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 60. | D Chandrasekhar Rao,do       | do   | do                | 290 | 140 | 150x12=1800 | 1800   |  |
| 61. | Kishore Ku Sahu,do           | do   | do                | 290 | 140 | 150x12=1800 | 1800   |  |
| 62. | Saroj Ku Pradhan,do          | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 63. | Suvendu Narayan Mishra,do    | do   | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 64. | Jayanti Munda,do             | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 65. | Manaswani Behera,do          | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 66. | Sumitra Kishan,do            | do   | do                | 200 | 71  | 129x12=1548 | 1548   |  |
| 67. | Etuari Oram,do               | do   | do                | 200 | 71  | 129x12=1548 | 1548   |  |
| 68. | Ramakrishna DS,do            | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 69. | Priyaranjan Mohapatra,Reader | 8000 | 09/13 to<br>02/14 | 410 | 200 | 210x6=1260  | 1260   |  |
|     | Total                        |      |                   |     |     |             | 170256 |  |
|     | Ministerial                  |      |                   |     |     |             |        |  |
| 1.  | K C Rout, P A                | 4200 | 03/13 to<br>08/13 | 290 | 140 | 150x8=1200  | 1200   |  |
| 2.  | B Sohela, O S                | do   | 03/13 to<br>02/14 | 410 | 200 | 210x12=2520 | 2520   |  |
| 3.  | G C Behera,SO                | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 4.  | G C Pradhan, SO              | do   | 03/13 to<br>07/13 | 200 | 90  | 110x5=550   | 550    |  |
| 5.  | L Kujur,SO                   | do   | 03/13 to<br>02/14 | 200 | 90  | 110x12=1320 | 1320   |  |
| 6.  | R K Pati, do                 | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 7.  | S P Tripathy,Sr Asst         | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 8.  | H S Panda,do                 | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 9.  | G C Sahoo,do                 | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 10. | P Rout, do                   | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 11. | B C Ojha, do                 | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 12. | J B Sathi, do                | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 13. | S K Panda, do                | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 14. | P C Khadia, do               | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |

|     |                         |           |                   |     |     |             |       |  |
|-----|-------------------------|-----------|-------------------|-----|-----|-------------|-------|--|
| 15. | S C Rout, do            | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 16. | A K Samal, do           | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 17. | M R Nayak, do           | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 18. | P N Biswal, do          | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 19. | B rath, do              | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 20. | R N Kanungo,do          | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 21. | B B Rao, Jr Asst        | 1900      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 22. | S S Mohanty, do         | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 23. | K K Kar                 | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 24. | K C Bohidar, Dem        | 4200      | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 25. | P K Behera, do          | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 26. | C D Sahu, SK            | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 27. | P K Purohit, Pharmacist | 2800      | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 28. | Balaram Mishra, Sr Lib  | 4600      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 29. | A K Patra, B B          | 4350-2175 | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 30. | L D Pal, PA to VC       | 4200      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 31. | C D Patra, Sr Steno     | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 32. | Sangram Mohanty, do     | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 33. | B K Murty, do           | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 34. | I M Sahoo, CT           | 2000      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 35. | A K Sarangi, do         | 1900      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 36. | Pratima Mahana, AHM     | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 37. | Archita Nanda, Lib      | 4200      | 10/13 to<br>02/14 | 200 | 90  | 110x5=550   | 550   |  |
| 38. | C R Biswal, Jr Asst     | 1900      | do                | 200 | 90  | 110x5=550   | 1320  |  |
| 39. | Laxman Meher, do        | do        | do                | 200 | 90  | 110x12=550  | 1320  |  |
|     | Total                   |           |                   |     |     |             | 53420 |  |
|     | Technical               |           |                   |     |     |             |       |  |
| 1.  | K C Pradhan, SI         | 5400      | 03/13 to<br>02/14 | 290 | 140 | 150x12=1800 | 1800  |  |
| 2.  | S Rout, do              | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 3.  | B K Bhoi, do            | 4600      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 4.  | Ashok Samal, do         | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 5.  | T R Mohanty, do         | do        | do                | 410 | 200 | 210x12=2520 | 2520  |  |
| 6.  | S K Acharya, do         | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 7.  | B K Biswal, do          | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 8.  | J K Mahanta, do         | do        | 03/13 to<br>07/13 | 290 | 140 | 150x5=750   | 750   |  |
| 9.  | A K Satpathy, do        | do        | 03/13 to<br>02/14 | 290 | 140 | 150x12=1800 | 1800  |  |
| 10. | K P Khandit, do         | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 11. | P K Sahu, do            | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 12. | G Rath, do              | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 13. | D K Biswal, do          | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 14. | A Meher, Sr Mech        | 4200      | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 15. | S Behera, Mech III      | 2800      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 16. | P Ojha, Mech I          | 4200      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 17. | A K Meher, Mech II      | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 18. | S Mohapatra, do         | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 19. | S Swain, do             | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 20. | P Samal, do             | DP 2333   | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 21. | B Tudu, do              | 4200      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 22. | D Murmu, Mech I         | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 23. | R Samal, do             | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 24. | S Khuntia, Mech III     | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 25. | N C Mohanty, CS         | do        | do                | 290 | 140 | 150x12=1800 | 1800  |  |
| 26. | K Nanda, Masson         | DP 2323   | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 27. | K Mahanda, do           | 2200      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 28. | A C Pal, Tracer         | 2000      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 29. | N Nayak, Driver         | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 30. | J Maharana, Carpenter   | DP 2323   | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 31. | K C Pradhan, WS         | Do 1760   | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 32. | S P Tripathy, Comp Prog | 4200      | do                | 200 | 90  | 110x12=1320 | 1320  |  |
| 33. | T Mishra,               | do        | do                | 200 | 90  | 110x12=1320 | 1320  |  |

|     |                         |      |                   |     |     |             |        |  |
|-----|-------------------------|------|-------------------|-----|-----|-------------|--------|--|
| 34. | M K Patel, Tech Asst    | 4600 | do                | 410 | 200 | 210x12=2520 | 2520   |  |
| 35. | S K Dehury, Electrician | 2000 | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 36. | P K Das, do             | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 37. | R N Das, Tel Operator   | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 38. | B K Mohanty, do         | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 39. | B Gantayat, do          | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
|     | Total                   |      |                   |     |     |             | 57150  |  |
|     | Class IV                |      |                   |     |     |             |        |  |
| 1.  | R M sahu, Daftary       | 1600 | 03/13 to<br>02/14 | 200 | 90  | 110x12=1320 | 1320   |  |
| 2.  | Cheranga Suna, LA       | 1750 | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 3.  | Brundabana Sahu, do     | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 4.  | Ghasiram Mahakur, do    | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 5.  | Sudam Pradhan, do       | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 6.  | S C Swain, do           | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 7.  | U C Bhoi, do            | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 8.  | M R panigrahi, do       | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 9.  | B R Mohanti, do         | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 10. | A C Panda, do           | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 11. | P K Sahoo, do           | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 12. | Sudarshan Pradhan, do   | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 13. | D Mirdha, do            | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 14. | N Suna, do              | do   | do                | 200 | 90  | 110x12=1320 | 1320   |  |
| 15. | B K Sahoo, Comp Attd    | 1930 | do                | 200 | 90  | 110x12=1320 | 1320   |  |
|     | Total                   |      |                   |     |     |             | 19800  |  |
|     | Grand Total             |      |                   |     |     |             | 301946 |  |

The practice has been continued since long. The same has been pointed out by previous audit. But no sincere effort on the score has been made by the local authority. As such the local authority is once again impressed upon to discontinue the practice. Further it is requested to take steps for recovery of the above objected amount of Rs 301946.00 . For such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Sno | Name                             | Designation  | Adress      | Amount(In Rs:) |
|-----|----------------------------------|--------------|-------------|----------------|
| 1   | Sri Jamini Ranjan Mohanty,Reader | Registrar    | VSSUT,Burla | 75487.00       |
| 2   | Sri Dinabandhu Minz              | COF          | VSSUT,Burla | 75487.00       |
| 3   | Sri Basistha Sohela              | Office Supt. | VSSUT,Burla | 75486.00       |
| 4   | Sri Lajras Kujur                 | Senior clerk | VSSUT,Burla | 75486.00       |

**14.4 - EXCESSAMOUNTSPENT ON LODGINGAND BOARDING**

**PARA 14.4 EXCESS AMOUNT SPENT ON LODGING AND BOARDING**

In violence to G.O. No.-C.S. -II-5/2011-16638/F/Dt.02.04.2011 a sum of Rs12147.00 has been spent more than the prescribe ceiling limit extravagantly while providing hospitality to the experts for conducting interview to faculties as shown below .The above expenditure has been charged vide Vr. No.-1630/28.03.2014.

| SL. | Name @designation                 | Grade pay | Date Of occupation | Amount spent | Amount admissible |        |          | Excess Amount spent | Remarks        |
|-----|-----------------------------------|-----------|--------------------|--------------|-------------------|--------|----------|---------------------|----------------|
|     |                                   |           |                    |              | 6                 | 7      | 8        |                     |                |
| 1   | Dr.Balbir Kr. Mathur,IIT Khargpur | 10000.00  | 1.3.14@2.3.14      | 10283.00     | 8000.00           | 400.00 | 8400.00  | 1883.00             | Lunch exempted |
| 2   | Dr.Sanjukta Dasgupta              | 10000.00  | 28.2.14            | 4980.00      | 4000.00           | 200.00 | 4200.00  | 780.00              | -do-           |
| 3   | Prof.S.K.Srivastav                | 10000.00  | 28.2.14            | 6247.00      | 4000.00           | 200.00 | 4200.00  | 2047.00             | -do-           |
| 4   | Prof.Pratima Partha Das           | 10000.00  | 10.3.14 to         | 15730.00     | 12000.00          | 600.00 | 12600.00 | 3130.00             | -do-           |

|       |                                   |          |                           |          |         |        |         |         |      |
|-------|-----------------------------------|----------|---------------------------|----------|---------|--------|---------|---------|------|
| 5     | Dr.D.K.Baidya                     | 10000.00 | 12.3.14<br>9.3.14@10.3.14 | 8972.00  | 8000.00 | 400.00 | 8400.00 | 572.00  | -do- |
| 6     | Prof.Sabyasachi Sengupta,IITK.Pur | 10000.00 | 8.3.14@9.3.14             | 9562.00  | 8000.00 | 400.00 | 8400.00 | 1162.00 | -do- |
| 7     | Prof.K.Sankar Pal                 | 10000.00 | 6.3.14@7.3.14             | 10413.00 | 8000.00 | 400.00 | 8400.00 | 2013.00 | -do- |
| 8     | Prof.RahulMitra                   | 10000.00 | 5.3.14@6.3.14             | 8960.00  | 8000.00 | 400.00 | 8400.00 | 560.00  | -do- |
| TOTAL |                                   | 12147.00 |                           |          |         |        |         |         |      |

In response to objection memo no.10 Dt.27.08.2014 the Local Authority replied that accommodation was not available within the prescribe ceiling limit in Bhubaneswar on those days after several search. So, looking at the dignity of guests accommodation was allowed at higher rate i.e. lodging @4000/- per day and boarding at Rs400/- per day. However reply of the local authority is a casual one and not admissible in audit. So on the ground of excess and extravagant expenditure Rs12147.00 is suggested for recovery from the concerned persons.

However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Sno | Name                             | Designation         | Adress                   | Amount(In Rs:) |
|-----|----------------------------------|---------------------|--------------------------|----------------|
| 1   | Sri Jamini Ranjan Mohanty,Reader | Registrar           | VSSUT,Burla              | 3037.00        |
| 2   | Sri Dinabandhu Minz              | COF                 | VSSUT,Burla              | 3037.00        |
| 3   | Sri Golak Chandra Pradhan        | Section Officer A/C | VSSUT,Burla now retired. | 3037.00        |
| 4   | Bandana Deoria.                  | D.Asst. A/Cs        | A/Ss VSSUT Burla         | 3036.00        |

**14.5 - EXCESS AMOUNT PAID IN CONVEYANCE**

**Para 14.5 EXCESS PAYMENT IN CONVEYANCE**

As per OUAM rule 65(i) and 66 employees of the University and other universities including officers/Teachers and other employees while on official duty to places are entitled to reimbursement of Local Travelling expenses incurred per day subject to a maximum of 50% of the D.A. admissible to them. But, here in violation to that a sum of Rs7250.00 was excess paid to the following payees towards conveyance allowance in T.A.Bills and charged expenditure in General Cash books against the vouchers as detailed below which is highly irregular and inadmissible in audit.

| Sl.No. | Name of the payee  | Vr.No./Dt.    | Amount   | Conveyance |            |             | Remarks |
|--------|--|---------------|----------|------------|------------|-------------|---------|
|        |  |               |          | Allowed    | Admissible | Excess paid |         |
| 1      | 2  | 3             | 4        | 5          | 6          | 7           | 8       |
| 1      | Dr. Pradeep Kr. Das<br>P/C T@P                           | 64/23.4.13    | 10875.00 | 1550.00    | 700.00     | 850.00      |         |
| 2      | Prof. P.K. Sahoo   | 444/27.7.13   | 4174.00  | 450.00     | 300.00     | 150.00      |         |
| 3      | Prof.S.S.Das   | 847/25.10.13  | 2360.00  | 800.00     | 400.00     | 400.00      |         |
| 4      | Prof.R.P.Dahia(IITDelhi)Member of BOM                    | 1152/19.12.13 | 27929.00 | 900.00     | 300.00     | 600.00      |         |
| 5      | Prof.SitanathMazumdar(Dept. of Business Management W.B.) | 1618/26.3.14  | 11178.00 | 800.00     | 200.00     | 600.00      |         |
| 6      | Dr.Bidyut Kr. Bhattcharya BESUW W.B.                     | 1618/26.3.14  | 12521.00 | 1600.00    | 200.00     | 1400.00     |         |
| 7      | Dr.Jayadev Rana  | 1168/23.12.13 | 1260.00  | 300.00     | 200.00     | 100.00      |         |
| 8      | Dr.Ganeswar Nath,Lectr.                                  | 1173/24.12.13 | 25195.00 | 800.00     | 180.00     | 620.00      |         |
| 9      | Dr.Bibhuti Bhusan Pati(Prof. Elect. Engg)                | 1199/2.1.14   | 27880.00 | 500.00     | 300.00     | 200.00      |         |
| 10     | Dr.Saroj Kr. Sarangi(Reader Mech. Engg)                  | 1215/3.1.14   |          | 300.00     | 100.00     | 200.00      |         |

|       |   |              |  |         |        |         |  |
|-------|---|--------------|--|---------|--------|---------|--|
| 11    | Prof.S.S.Das<br>(Civil Works)               | 1247/10.1.14 |  | 500.00  | 300.00 | 200.00  |  |
| 12    | Dr.Bikram DasLect.                          | 1274/18.1.14 |  | 400.00  | 150.00 | 250.00  |  |
| 13    | Ms.Sasmita Behera<br>Lect.Electronics Engg. | 1275/18.1.14 |  | 360.00  | 150.00 | 210.00  |  |
| 14    | Mr. Sangram Mohanty,Sr.Steno                | 1287/20.1.14 |  | 200.00  | 70.00  | 130.00  |  |
| 15    | Prof.K.P.MaityNITRKL                        | 1342/1.2.14  |  | 250.00  | 100.00 | 150.00  |  |
| 16    | Dr.R.K.Sahu,Reader                          | 1464/24.2.14 |  | 1000.00 | 360.00 | 640.00  |  |
| 17    | Prof.Sadhanshu S.Das                        | 1520/25.2.14 |  | 600.00  | 200.00 | 400.00  |  |
| 18    | Dr.Mamum Mishra,Lect.                       | 1547/7.3.14  |  | 300.00  | 150.00 | 150.00  |  |
| TOTAL |   |              |  |         |        | 7250.00 |  |

On issuing of objection statement no.09 Dt.27.08.2014 the Local Authority agreed to recover the objected amount from person concerned. So steps may be expedite to recover the objected amount of Rs. 7250.00 from person concerned. However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| S/no | Name                             | Designation         | Adress                   | Amount(In Rs:) |
|------|----------------------------------|---------------------|--------------------------|----------------|
| 1    | Sri Jamini Ranjan Mohanty,Reader | Registrar           | VSSUT,Burla              | 1813.00        |
| 2    | Sri Dinabandhu Minz              | COF                 | VSSUT,Burla              | 1813.00        |
| 3    | Sri Golak Chandra Pradhan        | Section Officer A/C | VSSUT,Burla now retired. | 1813.00        |
| 4    | Bandana Deoria.                  | D.Asst. A/Cs        | A/Ss VSSUT Burla         | 1811.00        |

**14.6 - IRREGULAR AND INADMISSIBLE EXPENDITURE IN DUMPING DISCARDED LIBRARY BOOKS**

Para No.14.6 Inadmissible payment in dumping  
of discarded Library books

Reference- General Cash Book Page No.-203/Dt.26.09.2013

Voucher No.-719/Dt.26.09.2013 Amount-Rs3000.00

In the above voucher a sum of Rs3000.00 was spent by Sri Balaram Mishra,Sr. Librarian for dumping of discarded library books by digging a pit with the help of labours .In the above bill neither estimate nor analysis was made in support of the dug pit.Further in the bill details on number of books carried out and their weight were no where stated.Further no muster rolls of labours showing details of time work by them was attached with the bill.But simply an acknowledge of receipt in support of payment for Rs3000.00 @750.00 per day was kept which is inadmissible and irregular.

On issuing of objection statement on this score the Local Authority replied that discarded library books has been dumped after obtaining approval of honorable Vice Chancellor.But reply of the Local Authority is not acceptable to audit as it is not economical.So it is suggested to recover Rs3000.00 from person concerned.

However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| S/no | Name                      | Designation         | Adress                   | Amount(In Rs:) |
|------|---------------------------|---------------------|--------------------------|----------------|
| 1    | Prof.B.K.Nanda            | Vice Chancellor,    | VSSUT,Burla              | 750.00         |
| 2    | Sri Dinabandhu Minz       | COF                 | VSSUT,Burla              | 750.00         |
| 3    | Sri Golak Chandra Pradhan | Section Officer A/C | VSSUT,Burla now retired. | 750.00         |
| 4    | Sri Balaram Mishra        | Sr.Librarian        | VSSUT,Burla              | 750.00         |

**14.7 - IRREGULAR AND INADMISSIBLE PAYMENT IN REPAIR**

Para 14.7 Irregular and Inadmissible payment in Repair

Reference:-General Cash Book Vr.No.-1325/Dt.30.01.2014 Amt-1990.00

Sub Vr. No.-01/Dt.30.01.2014 Amt.-1800.00

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In the above sub voucher a sum of Rs1800.00 was paid to Sri Chaturbhuj Meher towards repairing of 1no. of Laboratory Table in Chemistry Dept.But, in the above bill details on labour component and wage component were not stated.Also in the bill no specification regarding period/time of work and details of man power involved was specified.In absence of all of those simplyRs1800.00 was paid to the payee by obtaining signature against service rendered by him.

In response to objection memo the Local Authority replied that "As the work was emergency in nature ,so work has been done."But reply of the Local Authority is not supported with evidence. So in absence of all formalities expenses of Rs1800.00 is held under objection.

**14.8 - EXCESS AMOUNT PAID TOWARDS FESTIVAL ADVANCE**

Para14.8 Excess amount allowed towards Festival Advance

In violence to Govt.Order No.-30362/F/Dtd.26.09.2013 ,by way of showing undue favour a sum of Rs3023000.00 was paid in excess ( charged expenditure in the General Cash Book) than the prescribe ceiling limit to the following staffs which is inadmissible and irregular in nature.

| Sl.No. | Name of the payee | Vr.No./Dt.  | F.A. paid<br>(In Rs) | F.A. admissible | Excess of F.A.<br>paid | Penal interest<br>imposed | Remarks  |
|--------|-------------------|-------------|----------------------|-----------------|------------------------|---------------------------|----------|
| 01     | 02                | 03          | 04                   | 05              | 06                     | 07                        | 08       |
| 01     | D.Minz,COF        | 775/8.10.13 | 20000                | 0.00            | 20000                  | 320.75                    | G.P=5400 |
| 02     | B.Sohela          | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    | G.P.4200 |
| 03     | B.B.Rao           | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 04     | ArchitaNanda      | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 05     | G.C.Behera        | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 06     | L.Kujur           | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 07     | G.C.Pradhan       | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 08     | S.P.Tripathy      | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 09     | H.S.Panda         | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 10     | G.C.Sahoo         | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 11     | Rinki Bhoi        | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 12     | S.C.Ojha          | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 13     | J.B.Sathi         | 775/8.10.13 | 20000                | 15000           | 5000                   | 80.16                     |          |
| 14     | S.K.Panda         | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 15     | P.C.Khandia       | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 16     | S.C.Rout          | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 17     | Chitta R.Biswal   | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 18     | A.K.Samal         | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 19     | M.R.Nayak         | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 20     | P.N.Biswal        | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 21     | Brundaban Ratha   | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 22     | R.N.Kanungo       | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 23     | S.S.Mohanty       | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 24     | Pradeep k.Sinha   | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |
| 25     | K.K.Kar           | 775/8.10.13 | 35000                | 15000           | 20000                  | 320.75                    |          |



|    |                    |             |       |       |       |        |           |
|----|--------------------|-------------|-------|-------|-------|--------|-----------|
| 26 | D.K.Swain          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 27 | K.C.Bohidar        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 28 | P.K.Behera         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 29 | C.D.Sahoo          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 30 | A.K.Pradhan        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 31 | Balaram Mishra     | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 32 | A.K.Patra          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 33 | Bandana Deoria     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 34 | L.D.Pal            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 35 | C.D.Patra          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 36 | Sangram Mohanty    | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 37 | B.K.Murty          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 38 | A.K.Sarangi        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 39 | Pratima Mohana     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 40 | Harendra K. Padhi  | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 41 | Laxman Meher       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 42 | Chandan Kr. Seth   | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 43 | D.K.Biswal         | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 44 | P.K.Das            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 45 | S.K.Acharya        | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 46 | Santosh Behera     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 47 | B.K.Bhoi           | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 48 | P.K.Bhoi           | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 49 | B.K.Biswal         | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 50 | R.N.Das            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 51 | S.K.Dehuri         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 52 | B.Gantayat         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 53 | K.P.Khandit        | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 54 | Sanalan Khuntia    | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 55 | J.Moharana         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 56 | A.K.Meher          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 57 | Akadasia Meher     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 58 | N.K.Mishra         | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.=4600 |
| 59 | Kabi Mohanda       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 60 | B.K.Mohanty        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 61 | N.C.Mohanty        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 62 | T.R.Mohanty        | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.4200  |
| 63 | S.mohapatra        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 64 | Dumka Murmu        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 65 | K.Nanda            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 66 | P.Ojha             | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 67 | A.C.Pal            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 68 | M.K.Patel          | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.4600  |
| 69 | K.C.Pradhan(S.I)   | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.5400  |
| 70 | K.C.Pradhan(W.S.)  | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 71 | G.Ratha            | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.4600  |
| 72 | Subasini Rout      | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.5400  |
| 73 | P.K.Sahoo(S.I.)    | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.4600  |
| 74 | Pravakar Samal     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 75 | Rajendra Samal     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 76 | John Sarkar        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 77 | A.K.Satpathy       | 775/8.10.13 | 20000 | 0.00  | 20000 | 320.75 | G.P.4600  |
| 78 | Surendra Swain     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 79 | S.P.Tripathy       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 80 | B.Tudu             | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 81 | Malay Kr. Routray  | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 82 | R.M.Sahoo          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 83 | A.K.Rao            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 84 | B.K.Pradhan        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 85 | C.D.Behera         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 86 | Fakir Sahal        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 87 | G.Sandha           | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 88 | Amulya Rout        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 89 | Srikanta Mohapatra | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |
| 90 | Gajendra Suna      | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |           |

|     |                   |             |       |       |       |        |  |
|-----|-------------------|-------------|-------|-------|-------|--------|--|
| 91  | R.C.Sahu          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 92  | S.C.Nayak         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 93  | Anil Mohanta      | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 94  | Parsu Haripal     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 95  | B.H.Mishra        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 96  | B.K.Patra         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 97  | S.N.Sahu          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 98  | P.K.Swain         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 99  | Upendra Pradhan   | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 100 | R.N.Das           | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 101 | R.K.Kaudi         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 102 | N.K.Parida        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 103 | Cheranga Suna     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 104 | B.Sahu            | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 105 | S.B.Das           | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 106 | P.K.Meher         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 107 | S.C.Swain         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 108 | U.C.Bhoi          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 109 | H.R.Panigrahi     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 110 | B.R.Mohanty       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 111 | R.Singh           | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 112 | R.K.Pattnaik      | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 113 | Jiban Suna        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 114 | Kasi Rout         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 115 | S.Prusty          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 116 | P.K.Sahoo         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 117 | Jhatu Sahoo       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 118 | Sudarsan Pradhan  | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 119 | D.Mirdha          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 120 | Nilamani Suna     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 121 | S.C.Nath          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 122 | K.Bomjan          | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 123 | Mohan Pal         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 124 | R.P.Mirdha        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 125 | Dani Deep         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 126 | Sanatan Bibhar    | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 127 | Nakul Tandi       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 128 | Kiran Patra       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 129 | B.S.Barik         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 130 | Rama Suna         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 131 | Govinda Patra     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 132 | B.Parsuram        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 133 | Bhaskar Nayak     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 134 | Braja Bihar       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 135 | Sudarsan Mirdha   | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 136 | Sarathi Sendria   | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 137 | Sibi Kalet        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 138 | Ratha Sendria     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 139 | Goura Kalet       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 140 | Prema Sendria     | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 141 | Champa Negi       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 142 | R.Vasudev Sahu    | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 143 | G.C.Swain         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 144 | Murali Jena       | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 145 | Tankadhar Sahoo   | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 146 | B.K.Sahoo         | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 147 | Maheswar Haripat  | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 148 | S.S.Biswal        | 775/8.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 149 | Pranab K. Purohit | 795/9.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 150 | Tarakanta Meher   | 795/9.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 151 | Niranjan Nayak    | 795/9.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 152 | Ghasiram Mahakur  | 795/9.10.13 | 35000 | 15000 | 20000 | 320.75 |  |
| 153 | Durgadas Padhan   | 795/9.10.13 | 20000 | 15000 | 5000  | 80.16  |  |
| 154 | Chhabin Sandh     | 778/8.10.13 | 20000 | 15000 | 5000  | 80.16  |  |
| 155 | Gopal Kalet       | 778/8.10.13 | 20000 | 15000 | 5000  | 80.16  |  |

|       |                   |             |       |       |      |          |  |
|-------|-------------------|-------------|-------|-------|------|----------|--|
| 156   | Dasarathi Sendria | 778/8.10.13 | 20000 | 15000 | 5000 | 80.16    |  |
| 157   | Santosh Mahendrio | 778/8.10.13 | 20000 | 15000 | 5000 | 80.16    |  |
| TOTAL |                   |             |       |       |      | 48914.21 |  |

In response to objection statement the Local Authority

But reply of the Local Authority is not admissible to audit. As such penal interest of Rs48914.00 as noted in the above and as calculated below is suggested for recovery from the payees.

Details of calculation for penal [interest@Rs3.5/year](#)

| Sl. No.                | Objected amount at the end of the month | Penal interest Suggested forrecovery | Objected amount at the end of the month | Penal interest Suggested forrecovery | Remarks    |
|------------------------|---|--------------------------------------|---|--------------------------------------|------------|
| 1st month              | 20000                                   | 58.33                                | 5000                                    | 14.58                                | =(PRT/100) |
| 2 <sup>nd</sup> month  | 18000                                   | 52.49                                | 4500                                    | 13.12                                |            |
| 3 <sup>rd</sup> month  | 16000                                   | 46.66                                | 4000                                    | 11.66                                |            |
| 4 <sup>th</sup> month  | 14000                                   | 40.83                                | 3500                                    | 10.20                                |            |
| 5 <sup>th</sup> month  | 12000                                   | 34.99                                | 3000                                    | 8.75                                 |            |
| 6 <sup>th</sup> month  | 10000                                   | 29.16                                | 2500                                    | 7.29                                 |            |
| 7 <sup>th</sup> month  | 8000                                    | 23.33                                | 2000                                    | 5.83                                 |            |
| 8 <sup>th</sup> month  | 6000                                    | 17.49                                | 1500                                    | 4.37                                 |            |
| 9 <sup>th</sup> month  | 4000                                    | 11.66                                | 1000                                    | 2.91                                 |            |
| 10 <sup>th</sup> month | 2000                                    | 5.83                                 | 500                                     | 1.45                                 |            |
| TOTAL                  |   | 320.75                               |   | 80.16                                |            |

However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Slno | Name                             | Designation                   | Adress      | Amount(In Rs:) |
|------|----------------------------------|-------------------------------|-------------|----------------|
| 1    | Prof.B.K.Nanda                   | Vice Chancellor,              | VSSUT,Burla | 12229.00       |
| 2    | Sri Dinabandhu Minz              | COF                           | VSSUT,Burla | 12229.00       |
| 3    | Sri Jamini Ranjan Mohanty,Reader | Registrar                     | VSSUT,Burla | 12229.00       |
| 4    | Sri Lajrus Kujru                 | Section Officer Establishment | VSSUT,Burla | 12227.00       |

**14.9 - IN-ADMISSIBLE PAYMENT TOWARDS SITTING CHARGES**

in General Cash Book , a sum of Rs176000.00 was paid towards sitting charges for conducting interview for appointment of Lecturers/Faculties as detailed in below.As per Orissa University Accounting Manual Rule-68, expert attending Selection Committee Meetings are not entitled to Sitting or any other type of charges/fees except T.A./D.A.Hospitality.As such , in contrast to the above rules a sum of Rs 176000.00 has been paid to the payees which is highly irregular and inadmissible in audit.

| Sl.No. | Name of the payees and designation           | Voucher No./Dt. | Sub-Vr.No. | Amount paid towards sitting fees | Remarks |
|--------|--|-----------------|------------|----------------------------------|---------|
| 01     | 02   | 03              | 04         | 05                               | 06      |
| 01     | Dr.D.Mishra,Prof. VSSUT,Burla                | 1618/26.03.14   | 01         | 2000.00                          |         |
| 02     | Dr.Sudhir Kumar Barai                        | 1618/26.03.14   | 02         | 4000.00                          |         |
| 03     | Dr.Bidyut Kr.Bhattarchya,Pr of.BESU W.Bengal | 1618/26.03.14   | 03         | 2000.00                          |         |
| 04     | Dr.A.N.Nayak,Prof. f.VSSUT,Burla             | 1618/26.03.14   | 04         | 2000.00                          |         |
| 05     | Dr.Sitanath Mazumdar,Prof                    | 1618/26.03.14   | 05         | 2000.00                          |         |

|    |   |               |    |         |  |
|----|---|---------------|----|---------|--|
|    | Calcutta University                               |               |    |         |  |
| 06 | Dr.K.Narayan Chandaran, Prof. Hyerabad University | 1618/26.03.14 | 06 | 2000.00 |  |
| 07 | Dr.Sanjukta Dasgupta, Prof. West Bengal           | 1618/26.03.14 | 07 | 2000.00 |  |
| 08 | Dr.Goutam Sanyal, Prof. NIIT. Durgapur            | 1618/26.03.14 | 08 | 2000.00 |  |
| 09 | Dr. S.K.Srivastav, Prof, iit, Kharagpur           | 1618/26.03.14 | 09 | 2000.00 |  |
| 10 | Dr. Shankar Ram, Prof IIT Kharagpur               | 1618/26.03.14 | 10 | 4000.00 |  |
| 11 | Dr.K.K.Sugandhi, NIIT, Raipur                     | 1618/26.03.14 | 11 | 4000.00 |  |
| 12 | Dr.Balbir Kr.Mathur, Prof IIT Kharagpur           | 1618/26.03.14 | 12 | 4000.00 |  |
| 13 | Dr.B.K.Singh, Prof BIT Mesrea, Ranchi             | 1618/26.03.14 | 13 | 4000.00 |  |
| 14 | Dr. Ranjan Bhattarchya, Prof IIT, Kharagpur       | 1618/26.03.14 | 14 | 4000.00 |  |
| 15 | Dr.P.K.Jagadev Mohapatra, IIT, Kharagpur          | 1618/26.03.14 | 15 | 4000.00 |  |
| 16 | Dr.S.K.Sahu, Prof. BESU, W. Bengal                | 1618/26.03.14 | 16 | 4000.00 |  |
| 17 | Dr.B.K.Singh, Prof BIT, Mesrea, Ranchi            | 1618/26.03.14 | 17 | 2000.00 |  |
| 18 | Dr.Ranjan Bhattarchya, Prof IIT, Kharagpur        | 1618/26.03.14 | 18 | 2000.00 |  |
| 19 | Dr.P.K.Jagadev Mohapatra, IIT Kharagpur           | 1618/26.03.14 | 19 | 2000.00 |  |
| 20 | Dr.S.K.Saha, Prof. BESU W. Bengal                 | 1618/26.03.14 | 20 | 2000.00 |  |
| 21 | Dr.B.K.Singh, Prof BIT, Misrea, Ranchi            | 1618/26.03.14 | 21 | 2000.00 |  |
| 22 | Dr.P.K.Jagadev Mohapatra, Prof IIT Kharagpur      | 1618/26.03.14 | 22 | 2000.00 |  |
| 23 | Dr.G.L.Dutta, Retd. Prof. IIT Kharagpur           | 1618/26.03.14 | 23 | 2000.00 |  |
| 24 | Dr.K.K. Mukharjee, Prof. Yadavpur University      | 1618/26.03.14 | 25 | 4000.00 |  |
| 25 | Dr.A.K. Mishra, Prof. IIT Madras                  | 1618/26.03.14 | 26 | 4000.00 |  |
| 26 | Dr.G.B. Nanda, Prof IIT Kharagpur                 | 1618/26.03.14 | 27 | 4000.00 |  |
| 27 | Dr.Y.N.   | 1618/26.03.14 | 28 | 4000.00 |  |

|    |  |               |    |         |  |
|----|--|---------------|----|---------|--|
|    | Reddy, Prof. NIT,<br>Warangal                            |               |    |         |  |
| 28 | Dr. P.D. Srivastav,<br>Prof. IIT<br>Kharagpur            | 1618/26.03.14 | 29 | 4000.00 |  |
| 29 | Dr. Somesh<br>Kumar, Prof. IIT<br>Kharagpur              | 1618/26.03.14 | 30 | 4000.00 |  |
| 30 | Dr. Rahul<br>Mitra, Prof. IIT<br>Kharagpur               | 1618/26.03.14 | 31 | 4000.00 |  |
| 31 | Dr. Omkar Nath<br>Mohanty, EX. V.C.<br>BPUT, Odisha      | 1618/26.03.14 | 32 | 4000.00 |  |
| 32 | Dr. S.C. Panigrahi,<br>Prof. IIT<br>Kharagpur            | 1618/26.03.14 | 33 | 4000.00 |  |
| 33 | Dr. S.K. Pal, EX.<br>Director<br>ISI, Kolkata            | 1618/26.03.14 | 34 | 4000.00 |  |
| 34 | Dr. D.R.<br>Poddar, Retd. Prof<br>Jadavpur<br>University | 1618/26.03.14 | 35 | 4000.00 |  |
| 35 | Dr. S. Kar, Prof. IIT<br>Delhi                           | 1618/26.03.14 | 36 | 4000.00 |  |
| 36 | Dr. S. Dandapat, Pr<br>of. IIT Gauhati                   | 1618/26.03.14 | 37 | 4000.00 |  |
| 37 | Dr. S.K. Pal, Prof. I<br>SI Kolkata                      | 1618/26.03.14 | 38 | 2000.00 |  |
| 38 | Dr. D.R. Poddar, Pr<br>of. Jadavpur<br>University        | 1618/26.03.14 | 39 | 2000.00 |  |
| 39 | Dr. S. Kar, Prof. IIT<br>Delhi                           | 1618/26.03.14 | 40 | 2000.00 |  |
| 40 | Dr. S. Dandapat, Pr<br>of. Gauhati                       | 1618/26.03.14 | 41 | 2000.00 |  |
| 41 | Dr. Aurobonda<br>Routray, Prof<br>IIT Kharagpur          | 1618/26.03.14 | 42 | 6000.00 |  |
| 42 | Dr. Siddhartha<br>Sent, Prof. IIT<br>Kharagpur           | 1618/26.03.14 | 43 | 6000.00 |  |
| 43 | Dr. Sabyasachi<br>Sengupta, Prof. IIT<br>Kharagpur       | 1618/26.03.14 | 44 | 6000.00 |  |
| 44 | Dr. V.R. Desai, Prof<br>. IIT Kharagpur                  | 1618/26.03.14 | 45 | 4000.00 |  |
| 45 | Dr. S.K. Barai, Prof.<br>IIT Kharagpur                   | 1618/26.03.14 | 46 | 4000.00 |  |
| 46 | Dr. Dillip Kr.<br>Baidya, Prof. IIT<br>Kharagpur         | 1618/26.03.14 | 47 | 4000.00 |  |
| 47 | Dr. Partha Pratim<br>Das, Prof. IIT<br>Kharagpur         | 1618/26.03.14 | 48 | 4000.00 |  |
| 48 | Dr. Amit Kr. Das,  | 1618/26.03.14 | 49 | 4000.00 |  |
| 49 | Dr. Surya Sarathi<br>Barat                               | 1618/26.03.14 | 50 | 4000.00 |  |
| 50 | Dr. Partha Pratim<br>Das, Prof. IIT<br>Kharagpur         | 1618/26.03.14 | 53 | 4000.00 |  |
| 51 | Dr. Amit Kr. Das   | 1618/26.03.14 | 54 | 4000.00 |  |

|    |                           |               |    |           |  |
|----|---------------------------|---------------|----|-----------|--|
| 52 | Dr.Surya Sarathi<br>Barat | 1618/26.03.14 | 55 | 4000.00   |  |
|    |                           | TOTAL         |    | 176000.00 |  |

In response to Audit Objection statement memo no.11 Dtd.27.08.2014 the Local Authority replied that "The amount towards sitting charges has been borne from the applicants fees and not from the fund received from Govt.And further the fund has been approved by the Finance Commissioner and BOM and the fact has been communicated to GOVT.But when there is no provision to pay sitting fees as per rules so payment on the same does not arise whether from fund received from Govt . or from private bodies. As such till approval of Govt. on this score is received and communicated to audit Rs 176000.00 is suggested for recovery from the following.

**Responsible Person for this paragraph**

| Sno | Name                                | Designation         | Address                  | Amount(In Rs:) |
|-----|-------------------------------------|---------------------|--------------------------|----------------|
| 1   | Prof.B.K.Nanda                      | Vice Chancellor,    | VSSUT,Burla              | 44000.00       |
| 2   | Sri Jamini Ranjan<br>Mohanty,Reader | Registrar           | VSSUT,Burla              | 44000.00       |
| 3   | Sri Dinabandhu Minz                 | COF                 | VSSUT,Burla              | 44000.00       |
| 4   | Sri Golak Chandra<br>Pradhan        | Section Officer A/C | VSSUT,Burla now retired. | 44000.00       |

**14.10 - IRREGULARITY ON PAYMENT OF SERVICE TAX**

In the following vouchers of General Cash Book a sum of Rs196350.00 was paid to "Bharat Neat @ Clean Services" Rourkela towards 'Service Tax' as detailed below.But in the 'Bill' Service Tax Registration No. was nowhere stated nor any documentary in support of payment of the above Service Tax by the party was attached to the 'Bill'.As such whether ,payment of Service Tax amounting Rs196350.00 by the party to the Govt. was made or not is not sure.

| Voucher No./Dt. | Purpose of payment      | Gross Bill Amount | Details of S.Tax allowed |           | Remarks           |
|-----------------|-------------------------|-------------------|--------------------------|-----------|-------------------|
|                 |                         |                   | Rate                     | Amount    |                   |
| 01              | 02                      | 03                | 04                       | 05        | 06                |
| 95/27.4.13      | Cleanliness of premises | 104177.00         | 12.36%                   | 10778.00  | B.N.-143/12-13    |
| 95/27.4.13      | Cleanliness of premises | 92286.00          | 12.36%                   | 9536.00   | B.N.-169/12-13    |
| 95/27.4.13      | Cleanliness of premises | 96775.00          | 12.36%                   | 9964.00   | B.N.-19612-13     |
| 191/20.5.13     | Cleanliness of premises | 100715.00         | 12.36%                   | 10419.00  | B.N.-CS/025/13-13 |
| 448/24.7.13     | Cleanliness of premises | 101785.00         | 12.36%                   | 10750.00  | -                 |
| 643/7.9.13      | Cleanliness of premises | 131480.00         | 12.36%                   | 13803.00  | B.N.-CS/103/13-14 |
| 643/7.9.13      | Cleanliness of premises | 163813.00         | 12.36%                   | 17338.00  | B.N.-CS/122/13-14 |
| 800/9.10.13     | Cleanliness of premises | 142052.00         | 12.36%                   | 14944.00  | B.N.-CS/133/13-14 |
| 800/9.10.13     | Cleanliness of premises | 150801.00         | 12.36%                   | 15929.00  | B.N.-CS/160/13-14 |
| 1197/31.12.13   | Cleanliness of premises | 166460.00         | 12.36%                   | 17651.00  | B.N.-CS/214/13-14 |
| 1197/31.12.13   | Cleanliness of premises | 151204.00         | 12.36%                   | 15951.00  | B.N.-CS/187/13-14 |
| 1290/22.1.14    | Cleanliness of premises | 439836.00         | 12.36%                   | 49287.00  | B.N.-CS/103/13-14 |
| TOTAL           |                         |                   |                          | 196350.00 |                   |

On questioning about this vide objection statement no.20/Dtd.27.10.2014 the Local Authority replied that both the M.E. and M/S Bharati Neat and Clean Services ,Rourkela are intimated to produce all supporting records to audit.But they failed to do so till close of audit.So,payment of Rs196350.00 towards service tax is suggested for recovery from M/S Bharati Neat and Clean Services,Rourkela till production of the above documents.

However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Slno | Name                             | Designation          | Adress                   | Amount(In Rs:) |
|------|----------------------------------|----------------------|--------------------------|----------------|
| 1    | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 49088.00       |
| 2    | Sri Dinabandhu Minz              | COF                  | VSSUT,Burla              | 49088.00       |
| 3    | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 49088.00       |
| 4    | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 49086.00       |

**14.11 - Excess payment on leave salary**

During checking of acquittance rolls ( IVth grade ) with reference to General cash book it was noticed that the amount due for leave salary of Sri Kumar Bomjan , watchman for December 2013 (A/R P-259) was Rs 7336.00 but the amount paid to him as revealed from the cash book was Rs 10066.00 vide cheque No 245834/22-01-2014 which resulted in excess payment of Rs 2730.00.

In response to audit objection memo the local authority stated that Sri Kumar Bomjan has agreed to pay the amount from his pension bill. So till recovery, the excess paid amount of Rs2730.00 is held under objection.

However for such lapses following persons are held responsible.

**Responsible Person for this paragraph**

| Slno | Name                | Designation  | Adress      | Amount(In Rs:) |
|------|---------------------|--------------|-------------|----------------|
| 1    | Sri Basistha Sohela | Office Supt. | VSSUT,Burla | 910.00         |
| 2    | Sri Lajras Kujur    | Senior clerk | VSSUT,Burla | 910.00         |
| 3    | Sri Kumar Bomjan    | Watchman     | VSSUT,Burla | 910.00         |

**PARA: 15 AUDIT ON WORKS**
**15.1 - IRREGULAR AND EXCESS PAYMENT IN WORKS**

Name of the work-Balance Structural Glazing to the Entrance of Administrative Block of VSSUT,Burla

Name of the Contractor-Sri Praveen Kumar Agrawal

Agreement No.-VSSUT/C.Maintenance /Dt.01.08.2013

Voucher No.-42/Self Finance/Dt.30.08.2013

In the above work ,analysis was arrived at Rs353.10/Sq.ft. for structural Glazing Glass excluding VAT.Thus tender should be quoted at Rs353.10/Sq.ft. excluding VAT( or Rs370.75/Sq.ft. including 5%VAT on Rs353.10).But instead of quoting at the above rate of Rs353.10/Dq.ft. same was quoted at Rs365.00as revealed from Lr.no.2066/Dt.01.08.2013 attached to the Case Record which exclude VAT @5% . Also same rate of Rs365/per Sq.ft. was allowed to the contractor for execution of 240Sq.ft. of works.Thus ,by way of showing undue favour a sum of Rs2856.00 @11.90/Sq.ft. for 240Sq.ft. of work was excess paid to the executant which is highly irregular and needs recovery.

In response to objection statement no.28 Dt.24.11.2014 on this score the local authority replied that

**Responsible Person for this paragraph**

| Slno | Name                | Designation | Adress      | Amount(In Rs:) |
|------|---------------------|-------------|-------------|----------------|
| 1    | Sri Dinabandhu Minz | COF         | VSSUT,Burla | 408.00         |

|   |                                  |                      |                          |        |
|---|----------------------------------|----------------------|--------------------------|--------|
| 2 | Sri Sarat Kumar Behera           | Maintenance Engineer | Ex ME VSSUT,Burla        | 408.00 |
| 3 | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 408.00 |
| 4 | Prof.Sudhanshu Kumar Das,        | Prof Civil I/C       | VSSUT,Burla              | 408.00 |
| 5 | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 408.00 |
| 6 | Bandana Deoria.                  | D.Asst. A/Cs         | A/Ss VSSUT Burla         | 408.00 |
| 7 | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 408.00 |
|   |                                  |                      |                          |        |

**15.2 - EXCESS AND IRREGULAR PAYMENT IN WORKS**

Name of the Project-Construction of 100 seated S.C. Ladies hostel of VSSUT,Burla

Name of the Contractor-Mr.M/S Asaf Ali Khan

Agreement No.-977/28.02.2009

Voucher No.-939/Dt.12.11.2013 Amount-Rs1346142.00

M.B. No.-02 Pages 178 to 197

In the above work a som of Rs17217.42 was excess paid to the contractor by way of allowing excess rate in the work bill as shown below.

| Sl.No. | Item                    | Unit | Quantity | Rate allowed | Rate admissibl e | Amount paid | Amount admissibl e | Excess amount paid | Remarks |
|--------|-------------------------|------|----------|--------------|------------------|-------------|--------------------|--------------------|---------|
| 01     | 02                      | 03   | 04       | 05           | 06               | 07          | 08                 | 09                 | 10      |
| 01     | Cement concrete( 1:3:6) | cum. | 3.26     | 20336.91     | 2336.91          | 24835.74    | 7618.32            | 17217.42           |         |

On issuing of objection statement No.29/Dt.24.11.2014 on this score the Local Authority replied that

**Responsible Person for this paragraph**

| Slno | Name                             | Designation          | Adress                   | Amount(In Rs:) |
|------|----------------------------------|----------------------|--------------------------|----------------|
| 1    | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 2460.00        |
| 2    | Sri Dinabandhu Minz              | COF                  | VSSUT,Burla              | 2460.00        |
| 3    | Prof.Sudhanshu Kumar Das,        | Prof Civil I/C       | VSSUT,Burla              | 2460.00        |
| 4    | Sri Sarat Kumar Behera           | Maintenance Engineer | Ex ME VSSUT,Burla        | 2460.00        |
| 5    | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 2460.00        |
| 6    | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 2460.00        |
| 7    | Bandana Deoria.                  | D.Asst. A/Cs         | A/Ss VSSUT Burla         | 2457.00        |

**15.3 - IRREGULAR AND EXCESS PAYMENT IN WORKS**

Name of the Work-Renovation of Qr. No.-3R/21 OF VSSUT Part-III

Name of the Contractor-Sri Kuldeep Kumar Dhiman

Agreement No.-VSSUT/Maint./4180/Dtd.06.11.2013

Voucher No976/18.11.2013.- Amount-Rs34576.00



M.B. No.49- Page -57 to 62

In the above work 148.70Sq.mtr. of work for &quot;Painting one coat weather seal coat paint&quot; was kept as per estimate. But against the same 234.47Sq.mtr of work which is more than 57% of the estimate was executed for which neither revise estimate was made nor sanctioned . Thus in absence of revise estimate Rs4910.00 work value which is 47% more than the beyond permissible deviation of 10% was executed which is highly irregular and needs recovery.

| Sl.No. of item | Particular of work                             | Unit  | Rate per Sq.mtr. | Quantity of work executed as per voucher | Quantity of work executed as per provision in estimate | Maximum quantity of work permissible i.e. 10% more than estimate | Excess of work executed | Amount suggested for recovery | Remarks |
|----------------|--|-------|------------------|--|--|--|-------------------------|-------------------------------|---------|
| 01             | 02   | 03    | 04               | 05                                       | 06   | 07   | 08                      | 09                            | 10      |
| 03             | Painting one coat with weather seal coat paint | Sq.m. | 30.00            | 234.47Sq m.                              | 148.70Sq m.  | 163.66Sq m.  | 70.80Sq m.              | Rs.2124.00                    |         |

On issuing of Objection statement no.27 Dt.22.11.2014 on this score the Local Authority replied that

**Responsible Person for this paragraph**

| Slno | Name                             | Designation          | Adress                   | Amount(In Rs:) |
|------|----------------------------------|----------------------|--------------------------|----------------|
| 1    | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 304.00         |
| 2    | Sri Dinabandhu Minz              | COF                  | VSSUT,Burla              | 304.00         |
| 3    | Prof.Sudhanshu Kumar Das,        | Prof Civil I/C       | VSSUT,Burla              | 304.00         |
| 4    | Sri Sarat Kumar Behera           | Maintenance Engineer | Ex ME VSSUT,Burla        | 304.00         |
| 5    | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 304.00         |
| 6    | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 304.00         |
| 7    | Bandana Deoria.                  | D.Asst. A/Cs         | A/Ss VSSUT Burla         | 300.00         |

**15.4 - NON-DEDUCTION OF CESS**

In violence to D.O.No.-1942/LE dT.23.02.2007 of Comm-cum-Secretary to Govt.Labour and Employment Dept . and G.O.No.-GA(B)-6/2007/11466/R @DM BBSR Dt.19.03.2007 collection of CESS at the rate of 1% of the Project cost has not been deducted and deposited to proper quarter against the work bills as shown below. Due to this Govt. has sustained loss of revenue to the tune of Rs 79955.00 which is highly objectionable and needs recovery.

| Sl.No. | Name of the work                         | Vr.No./Dt.  | Labour cess not realized from work bill | Remarks |
|--------|--|-------------|---|---------|
| 01     | 02                                       | 03          | 04                                      | 05      |
| I      | GENERAL CASH BOOK                        |             |   |         |
| 01     | Reconstruction of Qr.No./TD/4/1 Phase-I  | 530/14.8.13 | 416.00                                  |         |
| 02     | Reconstruction of Qr.No./TD/4/1 Phase-II | 531/14.8.13 | 425.00                                  |         |
| 03     | Reconstruction of Qr.No./TD/4/2Phase-I   | 532/14.8.13 | 385.00                                  |         |
| 04     | Reconstruction of                        | 533/14.8.13 | 303.00                                  |         |

|    |   |             |  |          |
|----|---|-------------|--|----------|
|    | Qr.No./TD/4/2<br>Phase-II   |             |  |          |
| 05 | Colour, washing and painting of V.C. Residense Phase-I                  | 534/14.8.13 |  | 457.00   |
| 06 | Colour, washing and painting of V.C. Residense Phase-I                  | 535/14.8.13 |  | 467.00   |
| 07 | Const. of C.wall near Qr. TD-5/1 @TD-5/2, Phase-I                       | 536/14.8.13 |  | 377.00   |
| 08 | Const. of C.wall near Qr. TD-5/1 @TD-5/2, Phase-II                      | 537/14.8.13 |  | 377.00   |
| 09 | Const. of C.wall near Qr. TD-5/1 @TD-5/2, Phase-III                     | 538/14.8.13 |  | 377.00   |
| 10 | Renovation of Qr. No.-TD-3/1  | 539/14.8.13 |  | 434.00   |
| 11 | Const. of 100 seated ladies hostel                                      | 540/14.8.13 |  | 2035.00  |
| 12 | Special repair to Qr.No.F-15/10   | 822/22.X.13 |  | 463.00   |
| 13 | Removal of hard soil for development of garden Phase-I                  | 823/22.X.13 |  | 491.00   |
| 14 | Removal of hard soil for development of garden Phase-II                 | 824/22.X.13 |  | 491.00   |
| 15 | Removal of hard soil for development of garden Phase-III                | 825/22.X.13 |  | 491.00   |
| 16 | Removal of hard soil for development of garden Phase-IV                 | 826/22.X.13 |  | 491.00   |
| 17 | Renovation of back side of E-5 Block Phase-I                            | 827/22.X.13 |  | 434.00   |
| 18 | Renovation of back side of E-5 Block Phase-II                           | 828/22.X.13 |  | 440.00   |
| 19 | Renovation of back side of E-5 Block Phase-III                          | 829/22.X.13 |  | 440.00   |
| 20 | Renovation of back side of E-5 Block and C.wall of E-44 block Phase-I   | 830/22.X.13 |  | 496.00   |
| 21 | Renovation of back side of E-5 Block and C.wall of E-44 block Phase-II  | 831/22.X.13 |  | 498.00   |
| 22 | Renovation of back side of E-5 Block and C.wall of E-44 block Phase-III | 832/22.X.13 |  | 460.00   |
| 23 | Const. of 100 seated ladies hostel                                      | 166/15.5.13 |  | 11525.00 |
| 24 | Construction of C.wall in front of B.F.Guarte Phase-I                   | 384/17.7.13 |  | 492.00   |
| 25 | Construction of C.wall in front of B.F.Guarte Phase-II                  | 385/17.7.13 |  | 492.00   |

|    |   |              |          |  |
|----|---|--------------|----------|--|
| 26 | Construction of C.wall in front of B.F.Guarte Phase-III | 386/17.7.13  | 492.00   |  |
| 27 | Construction of C.wall in front of B.F.Guarte Phase-IV  | 387/17.7.13  | 492.00   |  |
| 28 | Construction of C.wall in front of B.F.Guarte Phase-V   | 388/17.7.13  | 492.00   |  |
| 29 | Construction of C.wall in front of B.F.Guarte Phase-VI  | 389/17.7.13  | 492.00   |  |
| 30 | Construction of C.wall in front of B.F.Guarte Phase-VII | 390/17.7.13  | 492.00   |  |
| 31 | Construction of C.wall in front of B.F.Guarte Phase-X   | 391/17.7.13  | 498.00   |  |
| 32 | C.Wall to the side of E-6/1,Phase-I                     | 415/26.7.13  | 468.00   |  |
| 33 | C.Wall to the side of E-6/1,Phase-II                    | 416/26.7.13  | 468.00   |  |
| 34 | C.Wall to the side of E-6/1,Phase-III                   | 417/26.7.13  | 472.00   |  |
| 35 | C.Wall to the side of E-6/1,Phase-IV                    | 418/26.7.13  | 474.00   |  |
| 36 | C.Wall to the side of E-6/1,Phase-V                     | 419/26.7.13  | 480.00   |  |
| 37 | C.Wall to the side of E-6/1,Phase-VI                    | 420/26.7.13  | 438.00   |  |
| 38 | C.Wall to the side of E-6/1,Phase-VII                   | 421/26.7.13  | 450.00   |  |
| 39 | C.Wall to the side of E-6/1,Phase-VIII                  | 422/26.7.13  | 466.00   |  |
| 40 | Const. of C.wall in front of Qr. No.-E-6/12             | 423/26.7.13  | 468.00   |  |
| 41 | Const. of C.wall in front of Qr. No.-E-6/1              | 424/26.7.13  | 338.00   |  |
| 42 | Const. of earth pit 8*6*10' and removing the rubbish    | 894/5.11.13  | 310.00   |  |
| 43 | Const. of 100 seated SC ladies hostel                   | 939/12.11.13 | 13461.00 |  |
| 44 | Reconst. of Qr.No.-3R/20 Phase-I                        | 969/18.11.13 | 450.00   |  |
| 45 | Reconst. of Qr.No.-3R/20 Phase-II                       | 970/18.11.13 | 453.00   |  |
| 46 | Reconst. of Qr.No.-3R/20 Phase-III                      | 971/18.11.13 | 365.00   |  |
| 47 | Reconst. of Qr.No.-3R/20 Phase-IV                       | 972/18.11.13 | 308.00   |  |
| 48 | Reconst. of Qr.No.-3R/20 Phase-V                        | 973/18.11.13 | 347.00   |  |
| 49 | Renovation of Qr.No.-3R/21-Phase-I                      | 974/18.11.13 | 453.00   |  |
| 50 | Renovation of   | 975/18.11.13 | 438.00   |  |

|    |   |               |        |  |
|----|---|---------------|--------|--|
|    | Qr.No.-3R/21-Phase-II                                       |               |        |  |
| 51 | Renovation of Qr.No.-3R/21-Phase-III                        | 976/18.11.13  | 346.00 |  |
| 52 | Renovation of Qr.No.-3R/21-Phase-IV                         | 977/18.11.13  | 283.0  |  |
| 53 | Renovation of Qr.No.-3R/21-Phase-V                          | 978/18.11.13  | 272.00 |  |
| 54 | Const. of C.wall in front of B.F.Qr. Phase-Viii             | 999/23.11.13  | 492.00 |  |
| 55 | Const. of C.wall in front of B.F.Qr. Phase-ix               | 1000/23.11.13 | 465.00 |  |
| 56 | Repair and reconstruction of Qr.No.E-6/ Phase-I             | 1046/4.12.13  | 475.00 |  |
| 57 | Repair and reconstruction of Qr.No.E-6/ Phase-II            | 1047/4.12.13  | 476.00 |  |
| 58 | Repair and reconstruction of Qr.No.E-6/ Phase-III           | 1048/4.12.13  | 432.00 |  |
| 59 | Repair and reconstruction of Qr.No.E-6/ Phase-IV            | 1049/4.12.13  | 405.00 |  |
| 60 | Repair and reconstruction of Qr.No.E-6/ Phase-v             | 1050/4.12.13  | 430.00 |  |
| 61 | Fixing of Grill @gate in E-5 @E-6 Blocks,Phase-I            | 1051/4.12.13  | 494.00 |  |
| 62 | Fixing of Grill @gate in E-5 @E-6 Blocks,Phase-II           | 1052/4.12.13  | 473.00 |  |
| 63 | Fixing of Grill @gate in E-5 @E-6 Blocks,Phase-III          | 1053/4.12.13  | 432.00 |  |
| 64 | Construction of retaining wall in front of A.B. Phase-I     | 1094/12.12.13 | 474.00 |  |
| 65 | Construction of retaining wall in front of A.B. Phase-II    | 1095/12.12.13 | 459.00 |  |
| 66 | Construction of drain in front of Civil Engr. Dept. Phase-i | 1096/12.12.13 | 493.00 |  |
| 67 | Construction of drain in front of CivilEngr.Dept.Phase-II   | 1097/12.12.13 | 493.00 |  |
| 68 | Construction of drain in front of Golden gate. Phase-II     | 1098/12.12.13 | 493.00 |  |
| 69 | Construction of drain in front of Golden gate. Phase-II     | 1099/12.12.13 | 493.00 |  |
| 70 | Construction of drain in front of Auditorium Phase-I        | 1100/12.12.13 | 493.00 |  |
| 71 | Construction of drain                                       | 1101/12.12.13 | 493.00 |  |

|    |   |               |         |  |
|----|---|---------------|---------|--|
|    | in front of Auditorium Phase-II   |               |         |  |
| 72 | Construction of drain to the side of Administrative block                   | 1102/12.12.13 | 493.00  |  |
| 73 | Construction of cup board in the Conference hallPhase-I                     | 1153/20.12.13 | 955.00  |  |
| 74 | Construction of cup board in the Conference hallPhase-II                    | 1154/20.12.13 | 795.00  |  |
| 75 | Preparation of cupbord,partition and working table in P.A. section Phase-I  | 1155/20.12.13 | 959.00  |  |
| 76 | Preparation of cupbord,partition and working table in P.A. section Phase-II | 1156/20.12.13 | 673.00  |  |
| 77 | Renovation of entrance lobby in front of V.C. Chamber and stair case        | 1157/20.12.13 | 952.00  |  |
| 78 | Construction of C.Wall infront of E-5 block Qr.no.-D/4                      | 1472/24.2.14  | 4600.00 |  |
| 79 | Special repair to Qr.No.-B.B.-13  | 1377/11.2.14  | 299.00  |  |
| 80 | Special repair to Qr.No.-B.F.-14  | 1378/11.2.14  | 320.00  |  |
| 81 | Special repair to Qr.No.-B.-19/6  | 1379/11.2.14  | 411.00  |  |
| 82 | Special repair to Qr.No.-B.-19/9  | 1380/11.2.14  | 420.00  |  |
| 83 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-I     | 1419/13.12.14 | 498.00  |  |
| 84 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-II    | 1420/13.12.14 | 460.00  |  |
| 85 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-III   | 1421/13.12.14 | 482.00  |  |
| 86 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-IV    | 1422/13.12.14 | 402.00  |  |
| 87 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-V     | 1423/13.12.14 | 336.00  |  |
| 88 | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-VI    | 1424/13.12.14 | 415.00  |  |
| 89 | Construction of R.C.C.Structure,kitch enhall of Anuradha                    | 1425/13.12.14 | 315.00  |  |

|                               |  |               |                 |  |
|-------------------------------|--|---------------|-----------------|--|
|                               | Hostel Phase-VII   |               |                 |  |
| 90                            | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-VIII | 1426/13.12.14 | 317.00          |  |
| 91                            | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-IX   | 1427/13.12.14 | 454.00          |  |
| 92                            | Construction of R.C.C.Structure,kitch enhall of Anuradha Hostel Phase-X    | 1428/13.12.14 | 219.00          |  |
| 93                            | Renovation of QR-3R/18 Phases-I  | 1605/26.3.14  | 459.00          |  |
| 94                            | Renovation of QR-3R/18 Phases-II   | 1606/26.3.14  | 454.00          |  |
| 95                            | Renovation of QR-3R/18 Phases-III  | 1607/26.3.14  | 363.00          |  |
| 96                            | Renovation of QR-3R/18 Phases-IV   | 1608/26.3.14  | 417.00          |  |
| 97                            | Renovation of Qr.-3R/19 Phase-I  | 1609/26.3.14  | 351.00          |  |
| 98                            | Renovation of Qr.-3R/19 Phase-II   | 1610/26.3.14  | 432.00          |  |
| 99                            | Renovation of Qr.-3R/19 Phase-III  | 1611/26.3.14  | 384.00          |  |
| 100                           | Renovation of Qr.-3R/19 Phase-IV   | 1612/26.3.14  | 241.00          |  |
| <b>SELF FINANCE CASH BOOK</b> |  |               |                 |  |
| 101                           | Aluminium composite panel to top middle face of Auditorium                 | 37/30.8.13    | 1021.00         |  |
| 102                           | Aluminium composite panel to top circular pillar of Auditorium             | 38/30.8.13    | 954.00          |  |
| 103                           | Aluminium composite panel to right top edge of Auditorium                  | 39/30.8.13    | 706.00          |  |
| 104                           | Aluminium composite panel to left top edge of Auditorium                   | 40/30.8.13    | 706.00          |  |
| 105                           | Aluminium composite panel to right side edge of Auditorium                 | 41/30.8.13    | 584.00          |  |
| 106                           | Aluminium composite panel to balance structural glazing                    | 42/30.8.13    | 920.00          |  |
|                               | <b>TOTAL</b>   |               | <b>79955.00</b> |  |

On issuing of objection statement no.21/Dtd.15.11.2014 on this score,the Local authority replied that the objected amount will be recovered from the Security deposit of the concerned work bills.As such till then Rs79955.00 is suggested for recovery from the concerned contractors.

**15.5 - EXCESS PAYMENT IN WORKS DUE TO WRONG TOTALLING**

Name of the work-Renovation of QR.No.-3r/18 of VSSUT Burla Part-III

Name of the Contractor-Sri Pradeep Kumar Panigrahi

Agreement No.-VSSUT/C.Maint./4608/Dtd.-06.02.2013

Vr.No.- 1607/24.03.2014 of General Cash Book Amount-Rs36332.00

First and Final Running Bill

M.B.No.-49,Pages-106 to 112

In the above work bill due to totalling mistake in M.B./Work Bill a sum of Rs887.00 was excess paid to the executant against the item as shown below which is inadmissible and needs recovery.

| Sl.No.       | Description of item                      | Unit | Rate   | Quantity executed |             |               | Payment made as per voucher | Payment admissible | Excess amount paid | Remarks |
|--------------|--|------|--------|-------------------|-------------|---------------|-----------------------------|--------------------|--------------------|---------|
|              |  |      |        | As per bill       | As per M.B. | As per actual |                             |                    |                    |         |
| 01           | 02                                       | 03   | 04     | 05                | 06          | 07            | 08                          | 09                 | 10                 | 11      |
| 01           | Supplying and fixing ceramic tiles       | Sqm. | 647.60 | 22.99             | 22.99       | 22.99         | 13716.16                    | 14888.32           | (-)1172.16         |         |
| 04           | Distemping two coats with approved shade | Sqm. | 40.60  | 296.38            | 296.38      | 245.66        | 12033.03                    | 9973.39            | 2059.64            |         |
| <b>TOTAL</b> |  |      |        |                   |             |               |                             |                    | <b>887.48</b>      |         |

On issuing Objection Statement No.27/Dtd.22.11.2014 on this score the Local Authority replied that

**Responsible Person for this paragraph**

| Sno | Name                             | Designation          | Adress                   | Amount(In Rs:) |
|-----|----------------------------------|----------------------|--------------------------|----------------|
| 1   | Sri Jamini Ranjan Mohanty,Reader | Registrar            | VSSUT,Burla              | 127.00         |
| 2   | Sri Dinabandhu Minz              | COF                  | VSSUT,Burla              | 127.00         |
| 3   | Prof.Sudhanshu Kumar Das,        | Prof Civil I/C       | VSSUT,Burla              | 127.00         |
| 4   | Sri Sarat Kumar Behera           | Maintenance Engineer | Ex ME VSSUT,Burla        | 127.00         |
| 5   | Sri Nimai Charan Mohanty         | Campus Supervisor/JE | VSSUT,Burla              | 127.00         |
| 6   | Sri Golak Chandra Pradhan        | Section Officer A/C  | VSSUT,Burla now retired. | 127.00         |
| 7   | Bandana Deoria.                  | D.Asst. A/Cs         | A/Ss VSSUT Burla         | 125.00         |

**PARA: 16 AUDIT ON UNITS / DEPARTMENT**

**16.1 - Hostel Accounts**

Details of Financial Position of Hostel Accounts for the year 2013-14 which has been maintained privately is furnished below.

(I)VASISTHA

| Sl No. | Name of the Cash Book | O.B. as on 01.04.2013 | Receipt    | Total      | Expenditure | Closing Balance as on 31.3.14 |
|--------|-----------------------|-----------------------|------------|------------|-------------|-------------------------------|
| 01     | Main Cash Book        | 1590.00               | 1333395.00 | 1334985.00 | 1283893.00  | 51092.00                      |
| 02     | Syndicate             | 0.00                  | 2712054.07 | 2712054.07 | 2483298.00  | 228756.07                     |

|    |                  |           |            |            |            |           |
|----|------------------|-----------|------------|------------|------------|-----------|
|    | Bank Cash Book   |           |            |            |            |           |
| 03 | S.B.I. Cash Book | 792913.49 | 4515536.00 | 5308449.49 | 5060050.00 | 248399.49 |
|    | TOTAL            | 794503.49 | 8560985.07 | 9355488.56 | 8827241.00 | 528247.56 |

Details of Closing Balance as on Dt.31.03.2014

(1)Cash in hand =Rs51092.00

(2)In Bank

(i)In SBI,Burla A/C No.45281 =248399.49

(ii)In Syndicate Bank A/C No. 80622210003304=228756.07

Total =528247.56

Bank reconciliation

-----

| Sl.No. | Name of the pass book and Ac. no.     | Balance as on Dt.31.03.2014 |                  | Difference | Remarks |
|--------|---------------------------------------|-----------------------------|------------------|------------|---------|
|        |                                       | as per pass book            | as per cash book |            |         |
| 01     | S.B.I.Burla A/C No.-45281             | 255499.49                   | 248399.49        | 7100.00    |         |
| 02     | Syndicate Bank A/C No.-80622210003304 | 246666.07                   | 228756.07        | 17910.00   |         |
|        | TOTAL                                 |                             |                  | 25010.00   |         |

The Local Authority is requested to reconcile the above difference of 25010.00 and compliance to audit.Till then Rs 25010.00 is held under objection.

II ) Arundhati

-----

| Sl. No | Name of the cash book | OB        | Receipt    | Total      | Expenditure | CB as on 31-03-2014 |
|--------|-----------------------|-----------|------------|------------|-------------|---------------------|
| 1.     | Petty cash book       | 9879.00   | 29491.00   | 39370.00   | 39370.00    | --                  |
| 2.     | SBI cash book         | 276599.00 | 8070157.83 | 8346756.83 | 7520322.00  | 826434.83           |
| 3.     | Syndicate cash book   | 36920.00  | 450652.11  | 487572.11  | 178697.00   | 308875.11           |
|        | Total                 | 323398.00 | 8550300.94 | 8873698.94 | 7738389.00  | 1135309.94          |

Details of CB as on 31-03-2014

-----

1.Cash in hand 7050.00

2.Bank

(i) In Syndicate A/C No 2620 308875.11

(ii) In SBI A/C No 5270 819384.83

Total 1135309.94

Bank Reconciliation

-----



| SI No. | Name of the pass book | Balance as on 31-03-2014 |                  | Difference | Remarks |
|--------|-----------------------|--------------------------|------------------|------------|---------|
|        |                       | As per pass book         | As per cash book |            |         |
| 1.     | Syndicate A/C No 2620 | 311990.73                | 308875.11        | 3115.62    |         |
| 2.     | SBI A/C No 5270       | 1113614.83               | 819384.83        | 294230.00  |         |

Total 297345.62

The Local Authority is requested to reconcile the above difference of Rs 297345.62 and compliance reported to audit. Till then Rs 297345.62 is held under objection.

**III ) Anuradha**

-----

| SI No | Name of the cash book | OB as 01-04-2013 | Receipt            | Total              | Expenditure       | CB as on 31-03-2014 |
|-------|-----------------------|------------------|--------------------|--------------------|-------------------|---------------------|
| 1.    | Vol I Cash book       | 76559.00         | 5706059.00         | 5782618.00         | 5782618.00        | --                  |
| 2.    | Vol II cash book      | 6578.00          | 366330.00          | 372908.00          | 372908.00         | --                  |
| 3.    | SBI cash book         | --               | 4694745.50         | 4694745.50         | 2918810.51        | 1775934.99          |
| 4.    | Syndicate cash book   | --               | 786099.33          | 786099.33          | 378023.00         | 408076.33           |
|       | <b>Total</b>          | <b>83137.00</b>  | <b>11553233.83</b> | <b>11636370.83</b> | <b>9452395.51</b> | <b>2184011.32</b>   |

Details of CB as on 31-03-2014

-----

|                            |            |
|----------------------------|------------|
| 1. Cash in hand            | 46793.49   |
| 2. Bank                    |            |
| (i) SBI A/C No 5269        | 1229141.50 |
| TD SBI 33475087931         | 500000.00  |
| (ii) Syndicate A/C No 2640 | 408076.33  |
| Total                      | 2184011.32 |

**Bank Reconciliation**

-----

| SI No | Name of the pass book A/C No | Balance as on 31-03-2014 |                  | Difference      | Remarks |
|-------|------------------------------|--------------------------|------------------|-----------------|---------|
|       |                              | As per pass book         | As per cash book |                 |         |
| 1.    | SBI A/C No.5269              | 1177703.50               | 1229141.50       | 51438.00        |         |
| 2.    | Syndicate A/C No. 2640       | 435737.57                | 408076.33        | 27661.24        |         |
|       | <b>Total</b>                 |                          |                  | <b>79099.24</b> |         |

The Local Authority is requested to reconcile the above difference of Rs 79099.24 and compliance reported to audit. Till then Rs 79099.24 is held under objection.

**IV ) Atri**

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| SI No | Name of the cash book | OB as 01-04-2013  | Receipt           | Total             | Expenditure       | CB as on 31-03-2014 |
|-------|-----------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| 1.    | Syndicate cash book   | 1437118.10        | 2845311.23        | 4282429.33        | 3862686.00        | 419743.33           |
| 2.    | SBI cash book         | --                | 3528508.00        | 3528508.00        | 3522682.00        | 5826.00             |
|       | <b>Total</b>          | <b>1437118.10</b> | <b>6373819.23</b> | <b>7810937.33</b> | <b>7385368.00</b> | <b>425569.33</b>    |

Details of CB as on 31-03-2014

|                    |                  |
|--------------------|------------------|
| 1. Cash in hand    | 25081.00         |
| 2. Bank            |                  |
| (i) Syndicate 2654 | 382626.33        |
| (ii) SBI 5258      | 17862.00         |
| <b>Total</b>       | <b>425569.33</b> |

Bank Reconciliation

| SI No | Name of the pass book A/C No | Balance as on 31-03-2014 |                  | Difference       | Remarks |
|-------|------------------------------|--------------------------|------------------|------------------|---------|
|       |                              | As per pass book         | As per cash book |                  |         |
| 1.    | Syndicate A/C No 2654        | 441807.13                | 382626.33        | 59180.80         |         |
| 2.    | SBI A/C No 5258              | 224237.10                | 17862.00         | 206375.10        |         |
|       | <b>Total</b>                 |                          |                  | <b>265555.90</b> |         |

The Local Authority is requested to reconcile the above difference of Rs 265555.90 and compliance reported to audit. Till then Rs 265555.90 is held under objection.

V ) Angira

| SI No | Name of the cash book | OB as 01-04-2013 | Receipt           | Total             | Expenditure       | CB as on 31-03-2014 |
|-------|-----------------------|------------------|-------------------|-------------------|-------------------|---------------------|
| 1.    | Syndicate cash book   | 277298.83        | 1874400.80        | 2151699.63        | 1098364.00        | 1053335.63          |
| 2.    | SBI cash book         | 435319.00        | 3481869.00        | 3917188.00        | 3673294.00        | 243894.00           |
|       | <b>Total</b>          | <b>71617.83</b>  | <b>5356269.80</b> | <b>6068887.63</b> | <b>4771658.00</b> | <b>1297229.63</b>   |

Details of CB as on 31-03-2014

|                           |                   |
|---------------------------|-------------------|
| 1. Cash in hand           | 2996.00           |
| 2. Bank                   |                   |
| (i) syndicate A/C No 2669 | 1053261.63        |
| (ii) SBI A/C No 90911     | 240972.00         |
| <b>Total</b>              | <b>1297229.63</b> |

| SI No | Name of the pass | Balance as on 31-03-2014 | Difference | Remarks |
|-------|------------------|--------------------------|------------|---------|
|-------|------------------|--------------------------|------------|---------|

|    | book A/C No              | As per pass book | As per cash book |          |  |
|----|--------------------------|------------------|------------------|----------|--|
| 1. | Syndicate A/C No<br>2669 | 1031261.63       | 1053261.63       | 22000.00 |  |
| 2. | SBI A/C No<br>90911      | 312232.00        | 240972.00        | 71260.00 |  |
|    |                          | Total            |                  | 93260.00 |  |

The Local Authority is requested to reconcile the above difference of Rs 93260.00 and compliance reported to audit. Till then Rs 93260.00 is held under objection.

## VI ) Kratu

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| SI No | Name of the cash book | OB as 01-04-2013 | Receipt    | Total      | Expenditure | CB as on 31-03-2014 |
|-------|-----------------------|------------------|------------|------------|-------------|---------------------|
| 1.    | Syndicate cash book   | 594140.74        | 4073770.86 | 4667911.60 | 4099354.00  | 568557.60           |
| 2.    | SBI cash book         | 63345.09         | 2307450.00 | 2370795.09 | 2273931.00  | 96864.09            |
|       | Total                 | 657485.83        | 6381220.86 | 7038706.69 | 6373285.00  | 665421.69           |

Details of Closing Balance as on 31-03-2014

|                          |           |
|--------------------------|-----------|
| 1. Cash in hand          | 8940.00   |
| 2. Bank                  |           |
| i) Syndicate A/C No 2616 | 559797.60 |
| ii) SBI A/C No 5305      | 96684.09  |
| Total                    | 665421.69 |

## Bank Reconciliation

| SI No | Name of the pass book A/C No | Balance as on 31-03-2014 |                  | Difference | Remarks |
|-------|------------------------------|--------------------------|------------------|------------|---------|
|       |                              | As per pass book         | As per cash book |            |         |
| 1.    | Syndicate A/C No<br>2616     | 373158.60                | 559797.60        | 186639.00  |         |
| 2.    | SBI A/C<br>No 5305           | 98988.09                 | 96684.09         | 2304.00    |         |
|       | Total                        |                          |                  | 188943.00  |         |

The Local Authority is requested to reconcile the above difference of Rs 188943.00 and compliance reported to audit. Till then Rs 188943.00 is held under objection.

## vii) Marichi

-----

| SI No | Name of the cash book            | OB as 01-04-2013 | Receipt    | Total      | Expenditure | CB as on 31-03-2014 |
|-------|----------------------------------|------------------|------------|------------|-------------|---------------------|
| 1.    | Mess cash book                   | 374961.58        | 7995537.58 | 8370499.16 | 6696494.00  | 1674005.16          |
| 2.    | Common Room/Dev. cash book       | 0.00             | 146670.00  | 146670.00  | 364756.00   | (-)218086.00        |
| 3.    | Fund Return(Syndicate) Cash Book | 0.00             | 1298500.00 | 1298500.00 | 1135363.00  | 163137.00           |
|       | TOTAL                            | 374961.58        | 9440707.58 | 9815669.16 | 8196613.00  | 1619056.16          |

Details of Closing Balance as per Cash Book

-----

(i) Cash in Hand =Rs62905.00

(ii) In Bank =Rs1556151.16

Total =Rs1619056.16

Reconciliation of Pass Books w.r.t. Cash Book is as follows

| Sl.No. | Name of the A/C with A/C No.                    | C.B. as per Pass Book as on 31.03.2014 | C.B. as per Cash Book as on 31.03.2014 | Difference        | Remarks |
|--------|---|--|--|-------------------|---------|
| 01     | S.B.I.Burla<br>A/C<br>No.-1075444529<br>2       | 276346.58                              | 1741183.00                             | 1464836.42        |         |
| 02     | Syndicate Bank<br>A/C<br>No.-8062221000<br>2635 | 102782.65                              | 102782.65                              | 0.00              |         |
|        | <b>TOTAL</b>                                    | <b>379129.23</b>                       | <b>1843965.65</b>                      | <b>1464836.42</b> |         |

I-C.B. as per Pass Book as on 31.03.2014 276346.58

(i) Add amount deducted towards 07 No. of TDR on Dt.07.10.13 as per Pass Book

but not charged expenditure in Cash Book (+) 490000.00

(ii) Add less amount taken to pass book on Dt.12.9.13 (+)550000.00

(a) amount shown deposited as per Mess Cash Book

page no.01/Dt.12.09.2013 is Rs.6161000.00 but actual amount credited

Rs 5566000.00

TOTAL =1316346.58

The Local Authority is requested reconcile the balance difference of Rs.148489.84 ( 91464836.42-1316346.58=148489.84) between the Cash Book and pass book.Till then Rs 148489.84 is held under objection.

So the grand total objected amount need to be reconciled from (i) to (vii) is Rs 1097704.00.

**PARA: 17 AUDIT ON SCHEMES / PROGRAMMES**

|               |
|---------------|
|               |
| <b>17.1 -</b> |
|               |
| No comments.  |
|               |
|               |

**PARA: 18 MISCELLANEOUS**

|  |
|--|
|  |
| <b>18.1 - Financial Position of GPF/CPF cash book for the year 2013-14</b> |

**Financial position of GPF / CPF of Employees of VSSUT , Burla for the year 2013-14 is furnished below.**

|                         |             |
|-------------------------|-------------|
| Opening Balance         | 60611301.04 |
| Normal Subscription     | 4401693.00  |
| Additional subscription | 4295767.00  |
| Recovery                | 3418435.00  |
| Total deposits          | 72727196.04 |
| Interest                | 5464770.39  |
| Grand total             | 78191966.43 |
| Temp. Advance           | 3195000.00  |
| Non refundable Advance  | 3082700.00  |
| Total withdrawal        | 6277700.00  |
| Closing Balance         | 71914266.43 |

**Statement Showing the Abstract of Provident Fund of VSSUT , Burla for the year 2013-14**

| Sl.No | Name & Designation     | P.F.<br>A/C.No. | OB         | Subscription |        | Recovery | Interest  | Withdrawal |       |
|-------|------------------------|-----------------|------------|--------------|--------|----------|-----------|------------|-------|
|       |                        |                 |            | Normal       | Addl.  |          |           | Temporary  | Final |
| 1     | C.R.Tripathy,Prof      | 317             | 1087026.20 | 85248        |        | 250000   | 88655.35  | 250000     |       |
| 2     | B.B.Pati,Prof.         | 509             | 896626.35  | 80424        | 60000  |          | 84643.15  |            |       |
| 3     | R P Panda,Prof.        | 334             | 444718.78  | 84627        |        |          | 32569.25  |            |       |
| 4     | A.N.Nayak,Prof.        | 533             | 967963.58  | 78436        |        |          | 87964.54  |            |       |
| 5     | P K Hota,Prof.         | 346             | 1007523.57 | 74215        |        |          | 91189.18  |            |       |
| 6     | Jayadev Rana,Prof.     | 485             | 649679.39  | 71950        | 40000  | 30000    | 50791.78  | 400000     |       |
| 7     | P C Swain,Prof         | 382             | 1602932.63 | 71950        |        |          | 142951.49 |            |       |
| 8     | D Mishra,Prof.         | 377             | 680500.99  | 71771        |        | 90000    | 67823.25  |            |       |
| 9     | S K Swain,Prof         | 564             |            | 22656        |        |          | 277.06    |            |       |
| 10    | P K Modi,Prof          | 387             | 665802.13  | 68490        |        | 45000    | 63279.97  |            |       |
| 11    | P K Pradhan,Prof       | 380             | 3122183.01 | 68490        | 350000 |          | 291895.39 |            |       |
| 12    | P R Das,Prof           | 506             | 710154.70  | 70195        |        |          | 65188.44  |            |       |
| 13    | P K Das,Prof           | 529             | 1355091.61 | 69058        | 30000  |          | 122595.62 |            |       |
| 14    | P K Kar,Prof           | 434             | 663825.91  | 64115        |        |          | 60792.90  |            |       |
| 15    | S B Mohapatra,Reader   | 278             | 729315.22  | 73853        | 60000  |          | 69780.46  |            |       |
| 16    | U R Jena,Reader        | 360             | 981720.63  | 64515        |        |          | 88297.05  |            |       |
| 17    | N P Rath,Reader        | 433             | 740218.00  | 61170        | 140000 |          | 71327.69  |            |       |
| 18    | B B Pani,Reader        | 431             | 797877.44  | 61170        |        |          | 72339.81  |            |       |
| 19    | P Nanda,Reader         | 507             | 1134380.80 | 45576        | 230000 |          | 110431.17 |            |       |
| 20    | Debasish Mishra,Reader | 514             | 170811.58  | 38676        |        | 51000    | 19066.85  |            |       |
| 21    | Suklyan Dash,Reader    | 519             | 292003.56  | 41517        |        |          | 27326.83  |            |       |
| 22    | M R Pradhan,Reader     | 511             | 217645.73  | 39111        |        | 60000    | 23551.25  |            |       |
| 23    | S Rath,Lect            | 379             | 1569412.44 | 65880        | 120000 |          | 97911.32  |            |       |

|    |                            |     |            |       |        |        |           |        |
|----|----------------------------|-----|------------|-------|--------|--------|-----------|--------|
| 24 | R Mohanty, Lect            | 512 | 269987.57  | 34960 |        | 30000  | 15703.84  | 200000 |
| 25 | M R Kabat, Lect            | 513 | 296045.47  | 38291 |        |        | 27551.16  |        |
| 26 | Santi Behera, Lect         | 516 | 291846.85  | 37380 |        |        | 27155.89  |        |
| 27 | K Sethi, Lect              | 515 | 391785.07  | 37272 | 18000  | 45000  | 31069.07  | 100000 |
| 28 | H S Behera, Lect           | 521 | 180782.12  | 36744 |        | 30000  | 18862.11  |        |
| 29 | Anjana Acharya, Lect       | 520 | 800821.03  | 39093 | 140000 |        | 77418.94  |        |
| 30 | K C Rout, P A              | 254 | 183716.00  | 6699  | 45000  |        | 9752.35   |        |
| 31 | B Sohela, O S              | 364 | 115590.15  | 24896 | 26000  | 18000  | 6551.13   |        |
| 32 | G C Behera, S O            | 363 | 205228.97  | 22142 |        | 52000  | 16863.19  | 50000  |
| 33 | G C Pradhan, S O           | 269 | 41022.77   | 25436 | 28000  |        | 5663.46   |        |
| 34 | L Kujur, S O (CPF)         | 361 | 1327692.52 | 46918 | 247500 | 0      | 127779.02 |        |
| 35 | R K Pati, Sr Asst          | 270 | 750306.99  | 25312 | 240000 |        | 77772.03  |        |
| 36 | S P Tripathy, Sr Asst      | 299 | 447422.82  | 23092 | 96000  |        | 44540.50  |        |
| 37 | H S Panda, Sr Asst         | 298 | 579355.54  | 23001 | 155000 |        | 57824.84  |        |
| 38 | G C Sahoo, Sr Asst         | 302 | 839271.01  | 23001 | 120000 |        | 79785.01  |        |
| 39 | P Rout, Sr Asst            | 333 | 161991.22  | 22197 | 17     | 8983   | 15662.67  |        |
| 40 | B C Ojha, Sr Asst          | 331 | 396323.80  | 20838 | 18000  | 62500  | 29979.81  | 150000 |
| 41 | J B Sethi, Sr Asst         | 439 | 232759.96  | 21306 | 12000  | 27300  | 23104.36  |        |
| 42 | S K Panda, Sr Asst         | 381 | 293872.45  | 20838 |        |        | 26565.11  |        |
| 43 | P C Khadia, Sr Asst        | 440 | 223350.37  | 21312 | 20000  | 14000  | 21506.88  |        |
| 44 | S C Rout, Sr Asst          | 401 | 482678.12  | 20406 | 108000 |        | 47786.47  |        |
| 45 | A.K.Samal, Sr.Asst.        | 420 | 226107.79  | 18758 | 99000  | 74400  | 26987.40  |        |
| 46 | M.R.Nayak, Sr.Asst.        | 422 | 143836.50  | 18758 |        | 28750  | 14801.76  |        |
| 47 | P.N.Biswal, Sr.Asst.       | 423 | 265075.22  | 18758 | 24000  |        | 25086.87  |        |
| 48 | B.Rath                     | 421 | 330599.04  | 18758 | 36000  |        | 23489.85  |        |
| 49 | R.N.Kanungo, Sr.Asst.      | 444 | 298667.97  | 18344 | 12000  |        | 27428.76  |        |
| 50 | B.B.Rao, Jr.Asst.          | 449 | 186584.71  | 13680 |        |        | 16890.09  |        |
| 51 | S.S.Mohanty, Jr.Asst.      | 486 | 90645.08   | 13110 |        | 23595  | 9723.86   |        |
| 52 | P.K.Sinha, Jr.Asst.        | 508 | 176921.80  | 12450 | 22500  |        | 16992.49  |        |
| 53 | K.K.Kar, Jr.Asst.          | 505 | 173075.02  | 12326 | 12000  | 27000  | 17771.71  |        |
| 54 | D.K.Swain, Jr.Asst.        | 458 | 354859.43  | 13658 | 40000  | 60000  | 36017.03  |        |
| 55 | K.C.Bohidar, Demonester    | 266 | 1141437.61 | 27393 | 120000 |        | 106309.58 |        |
| 56 | P.K.Behera, Demonstor      | 366 | 375206.46  | 25062 | 60000  | 133800 | 42929.80  |        |
| 57 | C.D.Sahoo, Stor Keeper     | 301 | 819401.78  | 25098 | 120000 | 10000  | 50908.13  |        |
| 58 | A.K.Pradhan, Jr.Asst.      | 456 | 317427.20  | 13624 | 21000  | 36000  | 31227.68  |        |
| 59 | P.K.Purohit, Pharmacist    | 402 | 624516.30  | 17860 | 24000  | 15000  | 57046.64  |        |
| 60 | B.Mishra, Sr. Librarian    | 356 | 442164.59  | 28179 | 48000  | 105000 | 41107.77  |        |
| 61 | A.K.Patra, Book Bindra     | 455 | 65680.68   | 7776  | 600    | 19875  | 7021.75   |        |
| 62 | L.D.Pal, Sr. Steno         | 247 | 115533.20  | 26190 | 52000  |        | 10448.50  |        |
| 63 | C.D.Patra, Sr. Steno       | 369 | 420872.10  | 24180 |        |        | 37778.27  |        |
| 64 | Sangram Mohanty, Sr. Steno | 448 | 744302.85  | 18528 | 120000 | 30000  | 72712.75  |        |
| 65 | B.K.Murty, Sr. Steno       | 457 | 325003.18  | 18528 | 48000  | 33000  | 29143.06  | 50000  |
| 66 | I.M.Sahoo, C.T             | 312 | 258210.58  | 15318 | 60000  | 40950  | 23274.84  | 150000 |

|     |                          |     |            |       |        |       |           |        |
|-----|--------------------------|-----|------------|-------|--------|-------|-----------|--------|
| 67  | A.K.Sarangi, C.T         | 459 | 128538.84  | 13658 |        | 20140 | 11015.21  | 20000  |
| 68  | Miss.P.Mahana, A.H.M     | 480 | 490688.54  | 44436 | 66000  |       | 48008.25  |        |
| 69  | K.C.Pradhan, Sr.Ins.     | 307 | 414952.23  | 34860 | 60000  |       | 32612.23  |        |
| 70  | Subasini Rout, Sr.Ins.   | 319 | 657892.84  | 34829 | 10000  |       | 58979.26  |        |
| 71  | B.K.Bhoi, Sr.Ins.        | 349 | 239915.54  | 30472 |        | 47700 | 24657.70  |        |
| 72  | A.Samal, Sr.Ins.         | 359 | 395881.13  | 30548 |        | 80000 | 29287.40  | 200000 |
| 73  | T R Mohanty,S I          | 378 | 730988.60  | 31495 | 20000  |       |           |        |
| 74  | S K Acharya,S I          | 393 | 872349.86  | 30552 | 73500  | 42000 | 82528.11  |        |
| 75  | B K Bswal,S I            | 394 | 678258.78  | 30552 | 48000  |       | 62740.18  |        |
| 76  | J K Mohanta,S I          | 395 | 164243.39  | 9449  |        | 30700 | 17210.46  |        |
| 77  | A K Satpathy,S I (CPF)   | 396 | 1145648.02 | 61104 |        | 0     | 102615.96 |        |
| 78  | N K Mishra,S I (CPF)     | 418 | 1013130.65 | 60954 |        | 0     | 91067.01  |        |
| 79  | K P Khandit,S I          | 437 | 543786.37  | 28680 |        |       | 48694.97  |        |
| 80  | P K Sahu, S I            | 436 | 487180.73  | 28680 |        | 60000 | 46578.50  |        |
| 81  | G Rath,S I               | 441 | 225154.32  | 28884 |        | 84235 | 23831.17  |        |
| 82  | D K Biswal,S I           | 450 | 643083.25  | 28110 |        | 10500 | 57097.73  | 30000  |
| 83  | Akadesia Meher,Sr Mech   | 353 | 437254.14  | 24682 | 98000  |       | 43906     |        |
| 84  | John Sarkar,Mech         | 295 | 204390.06  | 10020 |        | 33500 | 14707.21  | 140000 |
| 85  | Santosh Behera,Mech      | 367 | 242627.91  | 47496 |        | 64000 | 28271.79  |        |
| 86  | P Ojha,Mech              | 368 | 205458.26  | 47493 |        | 48500 | 17969.25  | 60000  |
| 87  | A K Meher,Mech           | 399 | 240336.42  | 37560 | 14000  | 15000 | 23813.41  |        |
| 88  | S Mohapatra,Mech         | 400 | 217297.06  | 37560 |        | 33000 | 22261.25  |        |
| 89  | Surendra Swain,Mech      | 463 | 403442.84  | 32831 | 36000  | 36000 | 40053.83  |        |
| 90  | P Samal,Mech             | 473 | 322931.14  | 8325  |        |       | 28511.46  |        |
| 91  | B Tudu,Mech              | 472 | 99078.64   | 34108 |        | 26000 | 11566.79  |        |
| 92  | D Murmu,Mech             | 471 | 261631.34  | 43900 | 42000  | 31780 | 27848.25  |        |
| 93  | R Samal,Mech             | 481 | 231505.71  | 33186 | 36000  |       | 23144.76  |        |
| 94  | S Khuntia,Mech           | 482 | 200106.37  | 36612 | 33000  |       | 20324.96  |        |
| 95  | N C Mohanty,C S          | 468 | 238502.07  | 24611 |        | 37290 | 23586.82  |        |
| 96  | Krushna Nanda,Mech       | 475 | 157589.97  | 8317  |        | 15750 | 10120.71  | 70000  |
| 97  | Kabi Mahananda,Masson    | 347 | 65673.84   | 15642 |        | 23000 | 3453.78   | 25000  |
| 98  | A C Pal,Tracer           | 479 | 252925.46  | 14448 | 18000  | 8000  | 24034.89  |        |
| 99  | N Nayak,Driver           | 410 | 272165.30  | 13540 | 42000  |       | 26301.45  |        |
| 100 | J Maharana, Mech         | 453 | 169717.98  | 8364  |        | 12000 | 11655.31  | 60000  |
| 101 | K C Pradhan,Work sarkar  | 293 | 30089.54   | 5127  |        | 9750  | 3245.31   | 15000  |
| 102 | S P Tripathy,Comp Prog   | 370 | 440255.16  | 63704 | 12000  | 30000 | 43377.76  |        |
| 103 | T Mishra, operator       | 466 | 930203.18  | 63704 | 84000  |       | 88013.97  |        |
| 104 | M K Patel,Tech Asst      | 397 | 1163607.04 | 30548 | 130000 |       | 110126.39 |        |
| 105 | P K Bhoi,Ferro Printer   | 372 | 310538.31  | 14304 | 45000  | 24000 | 30620.37  |        |
| 106 | S K Dehury,Electrician   | 398 | 388988.60  | 37599 | 12000  | 36000 | 37880.92  |        |
| 107 | P K Das,Electrician      | 451 | 201572.07  | 8480  | 3000   |       | 18092.16  |        |
| 108 | R N Das,Tel Operator     | 476 | 164236.38  | 14448 | 12000  | 20570 | 15425.38  | 50000  |
| 109 | B K Mohanty,Tel Operator | 477 | 276607.60  | 14448 | 24000  | 14000 | 26331.20  | 70000  |

|     |                          |     |           |       |       |       |          |  |       |
|-----|--------------------------|-----|-----------|-------|-------|-------|----------|--|-------|
| 110 | B Gantayat, Tel Operator | 478 | 158037.49 | 14448 | 16000 | 42480 | 17060.88 |  |       |
| 111 | R M sahu, Daftary        | 428 | 44280.85  | 10225 |       | 17675 | 4276.62  |  | 32000 |
| 112 | A K Rao, Head peon       | 469 | 84468.76  | 11529 |       | 27625 | 6830.67  |  | 40000 |
| 113 | G sandha, Bearer         | 493 | 47099.12  | 10307 |       | 22500 | 5628.20  |  |       |
| 114 | A Rout, Bearer           | 494 | 149788.76 | 10598 | 29200 |       | 14581.34 |  |       |
| 115 | G Suna, Bearer           | 496 | 108862.69 | 10598 |       |       | 9975.17  |  |       |
| 116 | R C Sahu, Bearer         | 498 | 110681.78 | 10441 | 3600  |       | 10294.30 |  |       |
| 117 | S C Nayak, Bearer        | 499 | 73452.59  | 10591 |       | 6000  | 6884.21  |  | 43000 |
| 118 | Anil Mohanta, bearer     | 500 | 85657.94  | 10591 |       | 4600  | 7457.50  |  | 15000 |
| 119 | Parsu Haripal, Bearer    | 501 | 77530.27  | 10591 |       | 12000 | 7807.59  |  |       |
| 120 | B K Mishra, Bearer       | 502 | 97646.47  | 10591 |       |       | 8989.85  |  |       |
| 121 | B K Patra, Bearer        | 510 | 54767.50  | 10430 |       | 22000 | 4827.67  |  | 38000 |
| 122 | S N Sahu, Bearer         | 517 | 45807.49  | 10062 |       | 15825 | 4936.86  |  | 32000 |
| 123 | P K swain, Bearer        | 518 | 82887.43  | 10062 | 6000  | 30000 | 7203.13  |  | 30000 |
| 124 | U Pradhan, Bearer        | 522 | 59794.77  | 10245 |       | 8580  | 6086.72  |  |       |
| 125 | Fakir Sahal, Bearer      | 470 | 69179.44  | 8727  |       | 20919 | 6149.76  |  | 40000 |
| 126 | Bijaya Pradhan, Bearer   | 530 | 49761.63  | 9952  |       | 9405  | 5211.06  |  |       |
| 127 | C D Behera, Bearer       | 527 | 43969.63  | 9952  |       | 17304 | 5104.98  |  |       |
| 128 | R K Kaudi, bearer        | 525 | 31035.60  | 10130 |       | 17400 | 3305.97  |  | 26000 |
| 129 | N Parida, Lab Att        | 442 | 73228.95  | 12273 |       | 32400 | 8467.60  |  |       |
| 130 | C Suna, Lab Att          | 415 | 157351.92 | 12327 | 6000  | 35180 | 13258.14 |  | 80000 |
| 131 | B sahu,, Lab Att         | 447 | 185512.96 | 12327 | 3550  | 15500 | 17757.38 |  |       |
| 132 | S Dash, Lab Att          | 495 | 145413.53 | 11443 | 1600  | 6000  | 11536.73 |  | 30000 |
| 133 | G Mahakur, Lab Att       | 417 | 66035.34  | 12009 |       | 29400 | 7693.36  |  |       |
| 134 | Subal Pradhan, Lab Att   | 355 | 143341.69 | 3967  |       |       | 5235.52  |  |       |
| 135 | P K Meher, Lab Att       | 411 | 133313.56 | 12482 | 6500  | 49440 | 7093.17  |  | 60000 |
| 136 | Sudam Pradhan, Lab Att   | 430 | 280428.56 | 12482 | 35000 |       | 26546.91 |  |       |
| 137 | S C Swain, Lab Att       | 314 | 65012.67  | 12498 |       | 17340 | 7051.23  |  |       |
| 138 | U C Bhoi, Lab Att        | 405 | 102821.01 | 12342 |       | 48000 | 9669.40  |  |       |
| 139 | M R Panigrahi, Lab Att   | 487 | 100512.94 | 11778 |       | 22850 | 6516.87  |  | 72000 |
| 140 | B R Mohanty, Lab Att     | 416 | 85063.35  | 12118 |       | 27240 | 9247.73  |  |       |
| 141 | R L Singh, Lab Att       | 354 | 178511.09 | 11962 | 12000 | 13000 | 14588.29 |  | 30000 |
| 142 | R K Pattnaik, Lab Att    | 412 | 201657.67 | 11836 |       | 33000 | 15359.19 |  | 48000 |
| 143 | Jiban Suna, Lab Att      | 414 | 127898.82 | 11962 |       | 29080 | 11222.80 |  | 60000 |
| 144 | A C Panda, Lab Att       | 427 | 156989.28 | 11836 | 18000 | 30000 | 16473.18 |  |       |
| 145 | Kasi Rout,, Lab Att      | 446 | 179684.35 | 11836 |       |       | 16187    |  |       |
| 146 | P K Sahu, Lab Att        | 460 | 118256.39 | 11962 |       | 15000 | 11557.65 |  |       |
| 147 | Jhatu Sahu, Lab Att      | 424 | 111281.90 | 12147 |       | 45000 | 12365.18 |  |       |
| 148 | S Pradhan, Lab Att       | 406 | 66889.52  | 9817  |       | 21600 | 5806.96  |  | 40000 |
| 149 | D Mirdha, Lab Att        | 467 | 154888.93 | 12239 |       |       | 14056.77 |  |       |
| 150 | N Suna, Lab Att          | 464 | 215625.13 | 12150 | 8800  | 6000  | 19987.61 |  |       |
| 151 | S C Nath, Lab Att        | 483 | 175966.59 | 11681 | 6000  |       | 15929.25 |  |       |
| 152 | K Bomjan, Watchman       | 297 | 37161.45  | 11829 |       | 27700 | 5129.42  |  |       |



|     |                           |     |                    |                |                |                |                   |                |
|-----|---------------------------|-----|--------------------|----------------|----------------|----------------|-------------------|----------------|
| 153 | Mohan Pal, Watchman       | 324 | 65592.40           | 11529          |                | 22550          | 5575.21           | 39000          |
| 154 | R P Mirdha, Watchman      | 407 | 86182.94           | 6598           | 0              | 14760          | 5073.15           | 40000          |
| 155 | Dani Deep, Watchman       | 425 | 109441.36          | 11463          |                | 19500          | 8742.61           | 60000          |
| 156 | S Bibhar, Watchman        | 484 | 147388.05          | 10922          | 1200           | 2500           | 13571.92          |                |
| 157 | N Tandri, Watchman        | 488 | 58281.56           | 10961          |                | 28710          | 6835.26           |                |
| 158 | K Patra, Watchman         | 497 | 52534.60           | 10598          |                | 18000          | 5913.75           |                |
| 159 | B Parsuram, Head Mali     | 325 | 89487.88           | 12106          |                | 21000          | 9347.02           |                |
| 160 | B Bibhar, Mali            | 489 | 70648.65           | 11319          |                | 21120          | 7669.64           |                |
| 161 | S Mirdha, Mali            | 408 | 43565.32           | 11833          |                | 24150          | 4269.20           | 24000          |
| 162 | S N Sendria, Jamadar      | 290 | 41062.49           |                |                |                | 590.17            |                |
| 163 | Sarathi Sendria, Sweeper  | 531 | 73067.31           | 9952           | 0              | 7200           | 5637.23           | 20000          |
| 164 | SiBi Kalet, Sweeper       | 326 | 63469.05           | 4985           |                | 13784          | 6437.07           |                |
| 165 | Ratha Sendria, Sweeper    | 490 | 77736.54           | 10961          |                | 15000          | 7983.36           |                |
| 166 | Gour Kalet, Sweeper       | 503 | 93696.07           | 10735          |                | 5500           | 7155.06           | 20000          |
| 167 | Prem Sendria, Sweeper     | 504 | 75117.87           | 10615          |                | 12750          | 5386.02           | 30000          |
| 168 | Vasudev Sahu, Lib Gk      | 528 | 69744.39           | 9952           |                |                | 6538.30           |                |
| 169 | G C Swain, Lib Att        | 462 | 98815.53           | 10983          |                | 22100          | 7418.85           | 40000          |
| 170 | M Jena, Lib Att           | 461 | 144920.93          | 11207          |                | 5700           | 11033.99          | 76000          |
| 171 | S Tankadhar Sahu, Lib Att | 404 | 145598.88          | 11472          | 1200           | 27000          | 14534.49          |                |
| 172 | S K Swain, Lib Att        | 403 | 168871.25          | 11550          |                |                | 15239.58          |                |
| 173 | B K Sahoo, Comp Att (CPF) | 409 | 242700.54          | 13696          |                | 14500          | 22252.94          | 40000          |
|     | <b>TOTAL</b>              |     | <b>60611301.04</b> | <b>4401693</b> | <b>4295767</b> | <b>3418435</b> | <b>5464770.39</b> | <b>3195000</b> |

**18.2 - COMMENTS ON BUDGET**

(A) A list of Budgetary provision and actual expenditure of different heads of VSSUT, Burla during the financial year 2013-14 is furnished below.

| Sl.No. | Particulars of Head   | Budgetary provision as per Budget of 2013-14 | Actual expenditure as per statement -B vide para 4 of this report | EXcess of expenditure beyond budgetary provision | % of excess deviation | Remarks |
|--------|---|--|---|--|-----------------------|---------|
| 01     | 2   | 3  | 4   | 5  | 6                     | 7       |
| 01     | Pay=49544320.00<br>D.P./G.P.=12466880<br>D.A.=51438910<br>U.L.S.=1372340<br>Total=114822450 | 114822450.00                                 | 89694827.00   |  |                       |         |

|    |  |             |             |                   |         |  |
|----|--|-------------|-------------|-------------------|---------|--|
| 02 | H.R.A.   | 676595.00   | 244500.00   |                   |         |  |
| 03 | O.A.   | 110670.00   | 24000.00    |                   |         |  |
| 04 | L.S. &P.C.   | 551150.00   | 441389.00   |                   |         |  |
| 05 | Pension &Commutation                                       | 45193770.00 | 49582232.00 | 4388462.00        | 9.71%   |  |
| 06 | Holding Tax  | 300000.00   | 28627.00    |                   |         |  |
| 07 | Purchase of library books & journal                        | 5000000.00  | 173541.00   |                   |         |  |
| 08 | Office Contingencies                                       | 2650000.00  | 235521.00   |                   |         |  |
| 09 | Other expenditure  | 29600000.00 | 2939573.30  |                   |         |  |
| 10 | T.A.   | 1000000.00  | 392804.00   |                   |         |  |
| 11 | Electrical charges   | 7000000.00  | 4454363.00  |                   |         |  |
| 12 | Water charges  | 1000000.00  | 774196.00   |                   |         |  |
| 13 | Consolidated salary of contractual lecturers               | 7128000.00  | 4872550.00  |                   |         |  |
| 14 | Telephone  | 200000.00   | 164864.00   |                   |         |  |
| 15 | Wages of NMR   | 180000.00   | 666765.00   | 486765.00         | 270.42% |  |
| 16 | Reimbursement of Telephone rent to Deans,HOD,Warden etc.   | 300000.00   | 69528.00    |                   |         |  |
| 17 | Maintenance of building (Electrical)                       | 3000000.00  | 298611.00   |                   |         |  |
| 18 | Maintenance of office equipment including central computer | 400000.00   | 141146.00   |                   |         |  |
| 19 | Maintenance of vehicle                                     | 500000.00   | 287228.00   |                   |         |  |
| 20 | Repair & maintenance of equipment of different department  | 4500000.00  | 495761.00   |                   |         | Chemistry=273561.00<br>Civil=17418.00<br>Workshop=165950.00<br>Mech.=38832.00<br>Total=495761.00 |
| 21 | Training and Placement                                     | 1000000.00  | 197020.00   |                   |         |  |
| 22 | Legal Expense  | 700000.00   | 66250.00    |                   |         |  |
| 23 | Watch & ward   | 1100000.00  | 2187296.00  | 1087296.00        | 98.84%  |  |
| 24 | Convocation  | 800000.00   | 656163.00   |                   |         |  |
| 25 | Ph.D.Scholarship   | 7500000.00  | 764414.00   |                   |         |  |
|    | <b>TOTAL</b>   |             |             | <b>5962523.00</b> |         |  |

Classification of budgetary heads were not always recorded properly in the Cash Book.So ,same may be adhered to henceforth. From the

above it is comprehended that the budget is almost realistic except excess expenditure of Rs5962523.00 beyond budgetary provision as pointed out above. So, the Local Authority is requested to express his view on the same. Till then Rs5962523.00 is held under objection.

(B) A list of Budgetary provision of Receipt and actual receipt of VSSUT, Burla for the year 2013-14 is furnished below.

| Sl.No. | Particular of Head of Receipt | Receipt as per Budgetary provision | Actual receipt | Difference | Remarks |
|--------|-------------------------------|------------------------------------|----------------|------------|---------|
| 01     | Admission and Re-admission    | 78125.00                           |                |            |         |
| 02     | Tuition                       | 16905600.00                        | 9191101.00     |            |         |
| 03     | Late fine                     | 2900.00                            |                |            |         |
| 04     | Identity card                 | 5700.00                            |                |            |         |
| 05     | Seat rent                     | 2542000.00                         |                |            |         |
| 06     | Light and water charges       | 2542000.00                         |                |            |         |
| 07     | House rent and convocation    | 233280.00                          |                |            |         |
| 08     | Hire charges of vehicle       | 6420.00                            |                |            |         |
| 09     | Miscellaneous                 | 32550.00                           |                |            |         |
|        | <b>TOTAL</b>                  | <b>22348575.00</b>                 |                |            |         |

Due to non-classification receipt and expenditure heads in cash book actual receipt and expenditure as per budget could not be ascertained. So, the Local authority is requested to take suitable measure for incorporation of the proper head of account in the cash book as per budget so that same could be compared.

### 18.3 - Govt Revenue Position of VSSUT, Burla for the Year 2013-14

The details of Government Revenue position collected and deposited by VSSUT, Burla for the year 2013-14 has been furnished below.

| Particulars | OB as on 01-04-2013 | Collected during the Year 2013-14 | Total      | Expenditure during the Year 2013-14 | Closing Balance |
|-------------|---------------------|-----------------------------------|------------|-------------------------------------|-----------------|
| VAT         | --                  | --                                | --         | --                                  | --              |
| Royalty     | 45520.00            | 76947.00                          | 122467.00  | 259927.00                           | -137460.00      |
| IT          | -1007294.00         | 7867613.00                        | 6860319.00 | 8613426.00                          | -1753107.00     |
| PT          | -400.00             | 574495.00                         | 574095.00  | 574495.00                           | -400.00         |
| Labour cess | --                  | 6822.00                           | 6822.00    | --                                  | 6822.00         |
| Sales Tax   | --                  | 302537.00                         | 302537.00  | 350642.00                           | -48105.00       |

### PARA: 19 AUDIT OF LOAN/DEPOSITS/CPF INCLUDING POSITIONS

### PARA: 20 RESULT OF AUDIT

#### 20.1 - Result of Audit

As a result of audit a sum of Rs133998728.13 is held under objection which includes sum of Rs123549330.00 suggested for recovery. Besides

this a sum of Rs110214.00 has been recovered on spot as detailed below.

| Sl. No. | Para no. | Objection statement page no. | M.R.No./Dt.  | Amount           | From whom recovered   | Remarks                     |
|---------|----------|------------------------------|--|------------------|-----------------------|-----------------------------|
| 01      | 11.1     | 44                           | 4232/29.10.2014  | 10000.00         | Sri D.K.Swain         | Misappropriation of cash    |
| 02      | 11.2     | 58                           | 701/21.11.2014   | 60000.00         |                       | Misappropriation of cash    |
| 03      | 11.3     | 59                           | 701/21.11.2014   | 13531.00         |                       | Misappropriation of cash    |
| 04      | 11.4     | 60                           | 701/21.11.2014   | 5376.00          |                       | Misappropriation of cash    |
| 05      |          | 07                           | 14164/16.07.2014   | 1647.00          | Prof.Debadatta Mishra | Excess payment in T.A./D.A. |
| 06      |          | 29                           | Vr.no.26/31.5.14,27/1.714,28/31.7.14,29/1.9.14,31/27.9.14,32/1.11.14 | 19660.00         | Sri B.Mohapatra       | Excess payment in Pension   |
|         |          |                              | <b>TOTAL</b>   | <b>110214.00</b> |                       |                             |

Audit Certificate

-----  
 Certified that the accounts of Veer Surendra Sai University of Technology for the year 2013-14 have been covered under audit and found correct subject to the remarks given in the fore going paragraphs.

**Result Of Audit**

| Sl No        | Name Of The Paragraph | Amount suggested for recovery(In Rs:) | Amount kept on objection(In Rs:) | Amount Surchargeable(In Rs:) | Amount Embezzlement(In Rs:) | Amount Othercases(In Rs:) | Remarks |
|--------------|-----------------------|---------------------------------------|----------------------------------|------------------------------|-----------------------------|---------------------------|---------|
| 1            | 5.1                   | 0.00                                  | 1470121.13                       | 0.00                         | 0.00                        | 0.00                      |         |
| 2            | 8.1                   | 236773.00                             | 2154023.00                       | 236773.00                    | 0.00                        | 0.00                      |         |
| 3            | 10.1                  | 122321266.00                          | 122321266.00                     | 0.00                         | 0.00                        | 0.00                      |         |
| 4            | 11.5                  | 2720.00                               | 2720.00                          | 2720.00                      | 0.00                        | 0.00                      |         |
| 5            | 11.6                  | 4500.00                               | 4500.00                          | 4500.00                      | 0.00                        | 0.00                      |         |
| 6            | 11.7                  | 20340.00                              | 20340.00                         | 20340.00                     | 0.00                        | 0.00                      |         |
| 7            | 14.1                  | 25123.00                              | 25123.00                         | 25123.00                     | 0.00                        | 0.00                      |         |
| 8            | 14.2                  | 87232.00                              | 87232.00                         | 87232.00                     | 0.00                        | 0.00                      |         |
| 9            | 14.3                  | 301946.00                             | 301946.00                        | 301946.00                    | 0.00                        | 0.00                      |         |
| 10           | 14.4                  | 12147.00                              | 12147.00                         | 12147.00                     | 0.00                        | 0.00                      |         |
| 11           | 14.5                  | 7250.00                               | 7250.00                          | 7250.00                      | 0.00                        | 0.00                      |         |
| 12           | 14.6                  | 3000.00                               | 3000.00                          | 3000.00                      | 0.00                        | 0.00                      |         |
| 13           | 14.7                  | 0.00                                  | 1800.00                          | 0.00                         | 0.00                        | 0.00                      |         |
| 14           | 14.8                  | 48914.00                              | 48914.00                         | 48914.00                     | 0.00                        | 0.00                      |         |
| 15           | 14.9                  | 176000.00                             | 176000.00                        | 176000.00                    | 0.00                        | 0.00                      |         |
| 16           | 14.10                 | 196350.00                             | 196350.00                        | 196350.00                    | 0.00                        | 0.00                      |         |
| 17           | 14.11                 | 2730.00                               | 2730.00                          | 2730.00                      | 0.00                        | 0.00                      |         |
| 18           | 15.1                  | 2856.00                               | 2856.00                          | 2856.00                      | 0.00                        | 0.00                      |         |
| 19           | 15.2                  | 17217.00                              | 17217.00                         | 17217.00                     | 0.00                        | 0.00                      |         |
| 20           | 15.3                  | 2124.00                               | 2124.00                          | 2124.00                      | 0.00                        | 0.00                      |         |
| 21           | 15.4                  | 79955.00                              | 79955.00                         | 0.00                         | 0.00                        | 0.00                      |         |
| 22           | 15.5                  | 887.00                                | 887.00                           | 887.00                       | 0.00                        | 0.00                      |         |
| 23           | 16.1                  | 0.00                                  | 1097704.00                       | 0.00                         | 0.00                        | 0.00                      |         |
| 24           | 18.2                  | 0.00                                  | 5962523.00                       | 0.00                         | 0.00                        | 0.00                      |         |
| <b>Total</b> |                       | <b>123549330.00</b>                   | <b>133998728.13</b>              | <b>1148109.00</b>            | <b>0.00</b>                 | <b>0.00</b>               |         |

**Audit Certificate**

Certified that the accounts of VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY for the financial year 2013-2014 have been covered under audit and found correct subject to the comments / remarks offered in the foregoing paragraphs .

Spot Recovery

| SI No | Ref Para No/Audit Objection Statement Page No | M.R.No | Date       | Amount(In Rs.) | Name of the person     |
|-------|---|--------|------------|----------------|------------------------|
| 1     | 07  | 14164  | 2014-07-16 | 1647           | Prof. Debadatta Mishra |
| 2     | 11.4  | 701    | 2014-11-21 | 5376           | Sri Akshya Samal       |
| 3     | 11.3  | 701    | 2014-11-21 | 13531          | Sri Akshya Samal       |
| 4     | 11.2  | 701    | 2014-11-21 | 60000          | Sri Akshya Samal       |
| 5     | 11.1  | 4232   | 2014-10-29 | 10000          | Sri D.K.Swain          |
| 6     | 29  |        | 0000-00-00 | 19660          | Sri B.Mohapatra        |
|       |   |        |            | <b>Total</b>   | <b>110214</b>          |

# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY; ORISSA, BURLA

(Formerly University College of Engineering, Burla)

(Established by Govt. of Orissa)

(Estd. - 1956)

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Ref. No. VSSUT.....

Date.....

## DECLARATION BY THE VICE-CHANCELLOR


I certify that the data included in this Self Study Report (SSR) of NAAC are true to the best of my knowledge.

This SSR is prepared by the University after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Place : Burla

Date : 6<sup>th</sup> April 2015

  
VICE-CHANCELLOR



# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY

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