

# The Annual Quality Assurance Report (AQAR) – 2017-18

Submitted By



**Veer Surendra Sai University of Technology, Burla**

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**The Annual Quality Assurance Report (AQAR) of the IQAC  
for the academic year July 1, 2017 to June 30, 2018**

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA**

**Part – A**

**1. Details of the Institution**

1.1 Name of the Institution

Veer Surendra Sai University of Technology, Odisha

1.2 Address Line 1

P.O.-Engineering College, Burla

Address Line 2

SAMBALPUR, ODISHA

City/Town

SAMBALPUR

State

ODISHA

Pin Code

768018

Institution e-mail address

vc@vssut.ac.in, vcvssut@gmail.com

Contact Nos.

(0663)-2430211, 2430204(FAX)  
+91- 9437572477(M), 9830182762

Name of the Head of the Institution:

Prof. Atal Chaudhuri

Tel. No. with STD Code:

(0663)-2430211,

Mobile:

+91- 9437572477(M)

Name of the IQAC Co-ordinator:

Dr.Bibhuti Bhusan Pati

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOCN 18879)

1.4 NAAC Executive Committee No. & Date:   
(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

#### 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.76	2016	2021
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

1.8 AQAR for the year (for example 2010-11)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))

- i. AQAR \_\_\_\_2016-17\_\_\_\_ submitted to NAAC on 07.05.2018 (DD/MM/YYYY)
- ii. AQAR\_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR\_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR\_\_\_\_\_ (DD/MM/YYYY)

1.10 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(eg. AICTE, Council of Architecture)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

It is a non-affiliating Unitary University of Govt. Of Odisha

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence  UGC-CPE

DST Star Scheme  UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

Centre of  
Excellence

UGC-COP Programmes

## **2. IQAC Composition and Activities**

2.1 No. of Teachers

5

2.2 No. of Administrative/Technical staff

3

2.3 No. of students

2.4 No. of Management representatives

1

2.5 No. of Alumni

2.6 No. of any other stakeholder and  
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

1

2.9 Total No. of members

10

2.10 No. of IQAC meetings held

05

2.11 No. of meetings with various stakeholders: No.  Faculty   
 Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

The IQAC Committee meets periodically to access the system of promotion and suggest ways to resolve anomalies in the API system and improve functioning of IQAC in the following areas

Curriculum Development,  
 Innovative teaching and research,  
 Academic audit. External & Internal Academic audit inspection of 2017-18.  
 Observed International Women's day on 8<sup>th</sup> March, 2018.,  
 Celebrated World Telecommunication Day.

IQAC works continuously for collecting and collating qualitative & quantitative data from every unit of the University.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
1.Orientation & Training programmes to faculty members	A workshop has been conducted on 30 <sup>th</sup> June, 2018 for the faculty members.
2. Academic Audit	Academic audits were conducted to ensure completion of syllabus, augmented syllabus, Internal Assessments, Students' Seminar, Projects etc.
3. Automation System	Office automation system has been implemented in examination system, result processing etc.

4. Implementation of CBCS system	The choice-based credit system has been introduced from next academic session.
5. NBA accreditation of remaining B.Tech.& M.Tech. programmes	Effort has been taken to apply for accreditation of the remaining B.Tech. and M.Tech. programme.
6. Selection of teaching and non-teaching posts	On regular basis as per rules embolished in Act and Statute of VSSUT
7. Submission of Application & SAR to NBA	Electrical, Mechanical, Electronics & Telecommunication, Production Deptt. have submitted
8. E-learning Centre	Inaugurated by Hon'ble Chief Minister.
9.Implementation of CAS Promotion.	Referred to Government for final permission.

\* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body      Yes       No

Management

Syndicate

Any other body

IQAC & HOD/Dean Meeting

Provide the details of the action taken

AQAR 2017-18 was placed before the IQAC organised workshop on 30<sup>th</sup> June 2018 and the members noted the contents after due deliberation. IQAC members have approved the AQAR and recommended to place it in Academic Council and then BOM.





## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	238	146	64	27	01

2.2 No. of permanent faculty with Ph.D. 

125
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	18	29	08	35	03	22	01	02	30	86

2.4 No. of Guest and Visiting faculty and Temporary faculty 

20
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00
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01
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	45	25	25
Presented papers	43	20	10
Resource Persons	02	05	15

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Each faculty designs the teaching and evaluation style of their respective courses. Innovative techniques commonly used for teaching and learning include use of power point presentations and animations to illustrate concepts, design of course websites and databases for ease of access to consolidated information.
- For certain courses, open book evaluations are also carried out to test the understanding of students.
- Lecture Notes uploaded in the University website.
- Evaluated answer scripts are shown to the students.
- Study leave is extended to faculty members who wish to pursue PhD programmes/PDF
- All the faculty members are encouraged to participate in National/International Conferences, Seminars, training Programs and also to organize National/International Conferences.
- The University also considers for financial support R&D activities on case to case basis.
- The faculty members are encouraged to apply for projects for research grants to different funding agencies such as AICTE/DST/UGC etc. which help to enhance professional competence and increase promotional avenues to the staff member under CAS.
- Faculty members are encouraged to pursue PhD programs and also to take up research work individually or in collaboration with other institutions or research organisations
- The University faculties are also provided training in using ICT Tools; latest software so that they can themselves create modern teaching aids to be used in the class rooms.
- Catering to Student Diversity: Special Counselling is given to needy students, Gender parity maintained through administrative procedures.
- All the faculty members are encouraged to use computers, Internet and Library resources to enrich their teaching.

2.7 Total no. of actual Teaching days during this academic year 

189
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- University conducts entrance tests for all of its PG, and Research Programmes. The entrance test is widely publicized in national dailies and on the University’s web-site.
- University admits students for its UG Programmes from JEE(Main) rank through OJEE Counselling. Top rankers of Odisha State prefer VSSUT for study.
- The University has a Examination Committee which meets periodically to review the examination system in its minutest details.
- Computerization of mark sheet printing, migration & provisional certificates, enrolment registers.
- In house printing of tabulation registers, preparation of basic database of students.
- The system of dispatch of degrees to those who could not present in convocation introduced without charging any additional amount.
- Proper upkeep of permanent record introduced
- Transparent system exists

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop 

All	All	All
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2.10 Average percentage of attendance of students 

85%
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However, at the Faculty and Department level the attendance is monitored.

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared (4929)	Division(No division is given)				
		Above 9 CGPA	Above 8 CGPA	Above 7 CGPA	Above 6 CGPA	Pass %
B.Tech(4years)	3423	15%	30%	40%	8%	2%
B.Arch(5years)	148	3%	40%	40%	5%	3%
M.Tech(2years)	438	10%	30%	47%	8%	2%
Dual Degree M.Tech(5years)	114	-	20%	40%	30%	5%
M.Sc.(2Yrs)	115	10%	30%	40%	8%	2%
Int. M.Sc.(5yrs)	245	-	30%	30%	20%	2%
MCA(3years)	103	10%	30%	40%	8%	2%
M.Phil(1year)	13	10%	30%	40%	8%	2%
Ph.D(45 submitted)	330					

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- Internal & External Academic Audit
- Monitor all the academic activities such as syllabus formation and value added courses.
- Monitors the internal assessment test evaluation and suggests for enrichment.
- Coordinates the revisit of Vision, Mission, PEO, PSO, PO and CO of each Programme
- Development of Quality benchmark/parameters for various academic and administrative activities of the Institute.
- IQAC has created more space for interaction between teachers and students both at department level and in University level.
- IQAC is monitoring self-appraisal of teaching and supporting staff.
- Documentation of various programmes/activities leading to quality improvement.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	120
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	150
Faculty exchange programme	0
Staff training conducted by the university	8
Staff training conducted by other institutions	51
Summer / Winter schools, Workshops, etc.	100
Invited Lectures	200
Two days training Programme on ESRI ARC GIS 10.5.1	25

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	106	21	01	20
Technical Staff	109	20	00	20
Outsourcing staff such as Security Guard, Driver, Clerks, Attendants				103

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- 24x7 Internet facility available in the University and Halls of residences in sensitising/Promoting research climate
- The University has a separate SRIC office which is looking after the research and consultancy work. Faculty members are encouraged to submit research projects to various funding agencies like DST, AICTE, CSIR, DRDO, UGC, etc.
- Facilities and Financial assistance to faculties to present papers in International, National and State Level Seminar and Conferences.
- Encouraging faculty members to become member of different technical societies like IEEE, IETE, Bigyan Academy, Engineering Congress etc.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	12	08	36
Outlay in Rs. Lakhs	21.34	220.22	110.9	380

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	1	0	0
Outlay in Rs. Lakhs	0	0.5	0	0

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	285	35	15
Non-Peer Review Journals	18	12	18
e-Journals	2855	35	15
Conference proceedings	212	62	10

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

#### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned IN LACS	Received
Major projects	2/3	AICTE	111.92	Yes
	2/3	DST	140.23	Yes
	2	UGC	22.57	Yes
	2	CSIR	20.2	Yes
	2	DRDO	15.59	Yes
	2	UKIERI	12.06	Yes
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the				

University/ College				
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total			322.57	

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from (08)

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges  
Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences  
organized by the Institution

Level	International	National	State	University	College
Number	1	10	2	6	
Sponsoring agencies	TEQIP	AICTE/TEQIP	TEQIP, MCL	TEQIP	

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Govt. Org.

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of University/College   
Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

3.17 No. of research awards/ recognitions received by faculty and research fellows  
Of the institute in the year

Total	International	National	State	University	Dist	College
10	0	6	4	0	0	0

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

120

363

3.19 No. of Ph.D. awarded by faculty from the Institution

2

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF 04 SRF 03 Project Fellows Any other 1

3.21 No. of students Participated in NSS events:

University level 4000 State level

National level International level

The National Service Scheme has become an important tool in sensitizing students and ensuring their direct participation in various social activities in and around the campus. NSS has more than 4000 students on its roll. Out of which approximately 3000 students participated in various programmes. A total of 8 different programmes were organized by NSS during the year. The activities encompassed Plantation programme, Blood donation camps, debate competitions, voter awareness campaigns and essay competition.

3.22 No. of students participated in NCC events:

University level 200 State level

National level International level

3.23 No. of Awards won in NSS:

University level State level

National level International level

3.24 No. of Awards won in NCC:

University level State level

National level International level

3.25 No. of Extension activities organized

University forum 20 College forum

NCC NSS Any other 6

- Sanskar Kendra instituted in near by village has been renovated and activities enhanced for under privileged villages.
- Cleaning in campus as a part of Swachha VSSUT Abhiyan conducted by NSS and Teachers Association.
- Blood Donation Camp
- Computer Literacy to school children
- Skill development to under matric local youths.
- Organising workshop on Value Systems and Ethics
- Centre for ethics and Professional development created
- Introduction of course on Professional Ethics
- Helping economically weaker and meritorious students to complete their studies by providing them waiver of tuition fees under TFW scheme
- Information Brochure for the year 2017-18, Wall Magazine, University Annual Magazine, T&P Brochure published.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	166.48 acre			166.48
Class rooms	68			68
Laboratories	58	01		59
Seminar Halls	6	01		07
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	203			239
Value of the equipment purchased during the year (Rs. in Lakhs)				545L
Others				

#### 4.2 Computerization of administration and library

The Admission and Examination module of Enterprise Resource Planning (ERP) System has been developed in house and implemented.

The University has Local Area Network covering the whole campus. This LAN is working at 1GBPS speed provided by BSNL under NMEICT scheme of Government of India.

The students and faculty have full access of all the e-journals of IEEE, Science Direct, ASCE, ASME etc under this LAN.

The learning materials from other e-learning sources such as NPTEL etc. are available for access through our dedicated servers.

The library is equipped with computer aided system for tracking, issue and return of books.

The e-learning classes are being organized through the dedicated bandwidth of the NMEICT scheme.

DELNET & IEEE E-learning materials are available

NPTEL Materials available

Regular attendance of the staff members for the purpose of administration are taken through Biometric system

The student attendance and course progress are monitored by HOD/Principal through ERP system

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	85000	2500 lakhs	2000	40 lakhs	87000	2540 lakhs
Reference Books	13000	200 lakhs	1500	3.00 lakhs	14500	203 lakhs
e-Books						
Journals	296	150 lakhs	10	50.00 lakhs	306	200 lakhs
e-Journals	5	100 lakhs	1	50.00 lakhs	06	150 lakhs
Digital Database						
CD & Video	20	5.00 lakhs	5	0.25 lakhs	25	5.25 lakhs
Others (specify)						

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	450	15	2	2	1	10	16	
Added	200	1	0	0	0	0	0	
Total	650	16	2	2	1	10	16	

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Each department has developed their own computational laboratory with essential software.
- 1 GBPs internet connection through National Knowledge Network (NKN) available through the academic campus and in the Halls of Residence.
- Online registration of students at entry level in 2017-18.
- Automation of academic and examination system
- Important places are covered under CCTV coverage.
- Biometric attendance system for faculty & staff
- Availability of e-resources in the Central Library (ASME, ASCE, IEEE, Science Direct
- Reliance Jio 30MBPS Network, Halls of Residences are wi-fi.



#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	198 lakhs
ii) Campus Infrastructure and facilities	1323 lakhs
iii) Equipments	1160 lakhs
iv) Others	500 lakhs
<b>Total :</b>	<b>3181 lakhs</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC has put forward several suggestions to enhance student support services like, facility of canteen, transport, hostel, sports, library, and timely disbursing the fellowship.

Internet facility with Wi-Fi connectivity is made available throughout the campus to support the students in enhancing their knowledge with easy digital access.

Induction day for the fresher's, where in all the coordinators & conveners of different committees briefed the students about curricular & extracurricular activities.

The University is catering to the needs of students belonging to deprived communities of Scheduled castes, Scheduled tribes, other backward classes and low-income groups. SC and ST

Students are encouraged to continue their education by way of Scholarships from Government and Non – Government Organizations

Subject wise special coaching classes for slow learners are conducted during the leisure hours.

Industry Institute Interaction cell builds a good relationship between the Industry and Institute for the welfare of the students by organizing regularly guest lectures, seminars, workshops, conferences, industry visits, internships and campus connect programmes.

Training & Placement Cell organizes various training programmes to mould the students with core competency and employability.

Central Library is equipped with various books, references, journals and e-journals to supplement the thrust of students and to enrich their self-learning ability.

A Grievance Redressal Cell is constituted to address the grievances of the students and parents through feedback.

Student association in each department organizes various programmes to widen their exposure in their respective field.

National Service Scheme (NSS)], NCC, Yoga Centre, Robotics club, & other clubs encourage the students to take part in community development activities.

Student support services like multi-disciplinary forums, association with professional bodies, alumni interactions, student forums / clubs, language laboratory, cash incentives to student achievers are provided.

The undertaking of Anti ragging committee Affidavit has been made. Anti-Ragging awareness created among the students.

Students' feedback system is followed to obtain opinion from them about the effectiveness of the faculty and the facilities in the college.

Medical insurance for accidental and risk coverage is offered to all the students.

### 5.2 Efforts made by the institution for tracking the progression

- The Dean, Students' Affairs, Dean, Academic Affairs and Dean, PGS&R offices look after and support the students in various academic as well as curricular activities.
- Appeal & Grievances Committee and Sexual Harrassment Committee have been formed to help the students.
- Head of the Department and Warden of Halls are in touch with the parents with the progress of wards and to elicit their views on various issues.
- Department meetings are being conducted twice in a month to monitor the progress of the action plan.
- Progression of students in attendance and academic performance is monitored continually and a well defined mechanism has been developed in the system
- Academic audit is being conducted every year to evaluate the progress.

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3848	820	300	0

(b) No. of students outside the state

120
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(c) No. of international students

0
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Men	<table border="1"> <tr> <th>No</th> <th>%</th> </tr> <tr> <td>3504</td> <td>70</td> </tr> </table>		No	%	3504	70	Women	<table border="1"> <tr> <th>No</th> <th>%</th> </tr> <tr> <td>1464</td> <td>30</td> </tr> </table>		No	%	1464	30
	No	%											
3504	70												
No	%												
1464	30												

Last Year					This Year						
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physical ly Challen ged	Total
3986	278	470			4734	4175	297	496			4968
Demand ratio				Dropout %							

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

In house training for GATE/CAT/TOEFL Examns and for Placement.

To embed industry practice and engineering ethics within the students

Effective Counselling System

Comprehensive Campus Recruitment Program

Dean, CDCE is organizing the coaching classes for the students to face competitive examinations like GATE, GRE, CAT, etc.

The department specially conducts special coaching to the students for competitive examinations.

Experts are invited to motivate and provide training to the students for competitive examinations like GATE, CAT, UPSC, OPSC etc.

Sufficient book and study materials are available in library to cater to the needs of students in GATE/CAT/MAT/NET etc.

Systematic coaching to freshers for joining and working in various students clubs e.g. IDEA Club, Innovation club, SAE Club, Photography club.

The University conducts a few lectures on communication skills, quantitative and analytical attitude training sessions to help the students with examns like GRE/TOEFL/ and CAT.

Students are also permitted to take such training outside

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input style="width: 20px; height: 20px;" type="text" value="7"/>	SET/SLET	<input style="width: 20px; height: 20px;" type="text"/>	GATE	<input style="width: 20px; height: 20px;" type="text" value="86"/>	CAT	<input style="width: 20px; height: 20px;" type="text" value="43"/>
IAS/IPS etc	<input style="width: 20px; height: 20px;" type="text"/>	State PSC	<input style="width: 20px; height: 20px;" type="text"/>	UPSC	<input style="width: 20px; height: 20px;" type="text"/>	Others	<input style="width: 20px; height: 20px;" type="text"/>

5.6 Details of student counselling and career guidance

There is a proctorial system in the University Training and Placement Cell which provides Career Counselling to the students. Around 20 students are attached to each faculty and the faculty will provide focused counseling and guidance by interacting with the students at regular intervals.

Exclusive career guidance classes are organized by the training and placement cell every year on regular basis.

Three internship programs for Faculty/students

Encourage Faculty/Students to get registered under SWAYAM/NKN Projects.

No. of students benefited

5.7 Details of campus placement

	<i>On campus</i>		<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
24	876	654	

## 5.8 Details of gender sensitization programmes

- Internal Complaint Cell organizes several programmes to enhance the confidence level of girl students for their empowerment in the society. International Women' s Day was celebrated On 8<sup>th</sup> March 2018 which is an opportunity to appreciate the remarkable contribution of women to our society.
- Personal and academic related problems of women are counselled and solved.
- Yoga and Pranayam programmes conducted in Halls of Residence.
- Induction programme on general etiquette during study.
- For health care of women, good gym facility has been provided.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	21	
Financial support from government	3926	
Financial support from other sources	110	
Number of students who received International/ National recognitions	28	

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: \_\_\_\_\_

- Improvement in sanitary facilities in the Halls of Residences
- Provision of pure drinking water in the academic campus as well as in the Halls of Residence
- Provision of deep bore well to address shortage of water in the halls of residence
- Improvement of approach roads to Halls of Residence.
- Solid waste treatment measures taken in the academic and residential areas
- Issue of mark sheets and all certificates streamlined.

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

##### **VISION OF THE UNIVERSITY**

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

##### **MISSION OF THE UNIVERSITY**

VSS University of Technology 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 where ever appropriate.
- Expanding curricula as appropriate to include broader perspectives.
- Creation of service opportunity for the upliftment of society at large

#### 6.2 Does the Institution has a management Information System

Steps are being taken to introduce MIS. ERP system also manages students records. Biometric attendance system is in place..

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

In order to keep the students turned to the latest trends in the emerging areas and also to go in the line with the industrial needs and global competition, the curricula and syllabi are updated once in four/five year. However, the content of the syllabi can be changed every year if required. The major industries plays a significant role in curriculum development of the University. Each department takes inputs from the industries regarding the curriculum. The Industry personnel are also included in the Board of Studies.

### 6.3.2 Teaching and Learning

- Student seminars, group discussions and brain storming sessions have been conducted.
- Students take up mini project work
- Experimental learning is achieved in laboratory classes.
- Outcome based education method has been followed
- Creation of learning environment in classes
- Industrial visit, guest lectures, workshops, seminars.
- Teaching and Learning process is strengthened with the help of e-learning resources.
- Faculty development programmes and in-service training are conducted once in a year to enrich their teaching-learning methods.
- Remedial classes are given to weaker students.
- Mentoring and counselling of slow learners are part of teaching and learning process
- Organising soft skill and personality development classes
- Use of digital learning resources

### 6.3.3 Examination and Evaluation

The University is following semester system in all the programmes. The timely publication of result is a major strength of the University. One internal examination, Quiz / assignment / technical presentation given due weightage. Showing answer scripts to the students before the publication of result makes the system more transparent.

### 6.3.4 Research and Development

- SRIC office is established with an objective of promoting research by faculty members in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. This office encourages the faculty members for applying research proposals/ projects and receiving funds from various sponsoring research agencies. Faculty members are provided financial assistance from TEQIP fund for participating in conference, Symposia, Faculty Development programmes, Seminars etc.
- Encouraging faculty to organize, attend and present papers at state/ national/ international conferences and seminars.
- Faculty members are motivated to publish their research papers in reputed national and international journals / conferences.
- Faculty members guide the students to carryout research under student project

**Library:**

The Central Library of the University is having an area of 10,900 sq.ft. The Library is fully automated by using SLIM 21 automation software. The Central Library has sufficient e-journals which include Science direct and DELNET & IEEE etc. and sufficient back volumes for all the departments. Digital library facilities with National and International online journals are also provided in the Central The library building is enabled with Wi-fi facility. Every year, additional volumes of books are added based on the requirements from all the departments. Further, all the engineering departments have developed their departmental Library for the benefit of the students in PG and Ph.D.

**ICT:**

The University has central facilities like Central Internet Facilities, Central Computer Facilities which provides all ICT tools to UG, PG and Ph.D. students. The University has smart class rooms and e-learning centres which provide basic needs of the students in solving their problems in research and development.

**Physical infrastructure/instrumentation:**

The PIC, Civil Works and campus supervisor is monitoring the maintenance of academic infrastructure and other facilities. The PIC, Horticulture looks after the maintenance of Central Lawns and green landscape.

The green ambience of the campus is maintained by the civil maintenance section of the University.

6.3.6 Human Resource Management

The University is maintaining teacher student ratio i.e. 1:20. At present, 309 teaching posts have been sanctioned by the Govt. Of Odisha for various departments and University. The posts are filled up through open advertisement on all India basis. The University has been arranging orientation programmes for the newly joined faculty members of the University every year.

Incentives are given to the faculty members for uploading lecture notes in the University website.

Incentives are given to the faculty members for presenting research papers in reputed Journals / International and National Conferences.

Faculty members are supported financially through TEQIP to attend Conference / Workshop & FDP conducted outside the University.

Each faculty members were funded with a seed grant of Rs.1.00 lakhs to create ecosystem for research.

6.3.7 Faculty and Staff recruitment

The faculty and staff recruitment have been made through open advertisement in the leading news papers of Odisha and India. The selection is made through a Selection Board as per the guidelines of VSSUT Act and 1<sup>st</sup> Statute.



The University emphasizes upon career development of the students. This can be achieved by establishing MoUs with reputed core industries to enhance Industry-Institute Interaction activities like internships, industrial visits, value added courses, industrial projects, guest lectures etc., for the benefit of students.

- 1) Infosys Ltd, Bangalore
- 2) NI System (India) Pvt. Ltd, Bangalore
- 3) SKF India Ltd, Pune
- 4) Tech Mahindra, Pune

The University also signed MoU with the following foreign Universities for faculty exchange programmes

- 1) University of New Orleans, USA

Entrepreneur Development Cell is also functioning for enhancing the industry-institute relationship. The Entrepreneurship Awareness Camps are conducted every year by the Cell.

## 6.3.9 Admission of Students

Admission to B.Tech. programmes is made based on the all India rank secured in JEE(Main) conducted by CBSE. Admission to various M.Tech., M.Sc, Int. M.Sc., M.Phil and Ph.D. programmes are conducted by the University. Admission to B.Tech. (Lateral Entry) & MCA programmes are based on rank through OJEE.

## 6.4 Welfare schemes for

Cadre	Scheme	Benefitted
Teaching	8	234
Non teaching	6	230
Students	2	4900

## 6.5 Total corpus fund generated

285.4 lakhs

## 6.6 Whether annual financial audit has been done

Yes

No

## 6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	-	Yes	University Committee
Administrative	Yes	CAG, LFA	Yes	University Committee

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes Yes  No

For PG Programmes Yes  No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- 1) Showing answer scripts to the students
- 2) Timely publication of results
- 3) Supplementary examination

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The University is an Unitary one. It has enjoyed administrative, academic and financial autonomy.

6.11 Activities and support from the Alumni Association

- Alumni Meets are conducted every year. Global Alumni meet is also conducted from time to time. The Alumni Association is providing assistance in building the Golden Jubilee Gate, Seminar Hall etc.
- Alumni are invited to visit the University for guest lecturers & interaction with students to enhance the knowledge & skills of the students.
- The alumni help in bringing industries and companies for campus Placements and provides employment opportunities to the students.
- The Alumni entrepreneurs motivate and guide the students to become entrepreneurs.
- The Innovation and Idea Club provides necessary knowhow and manufacturing facility for pitching of idea, product development and apply for intellectual property rights.

6.12 Activities and support from the Parent – Teacher Association

- The parents are invited in the Orientation programmes organised by the University every year.
- The parents get an opportunity to interact with the faculty advisors and heads of the departments to know about their ward's performance and study.
- They are also invited to attend the meeting arranged for NBA, NAAC team visit from time to time. A feedback system is also introduced by the University.

#### 6.13 Development programmes for support staff

The University is organising Skill development programmes for the supporting staff of the University and local unemployed youths. The Computer Science & Engg. department of the University organises Computer Awareness programmes for the supporting staff of the University.

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Solar street lights inside the campus
- Rain Water harvesting
- Energy conservation
- Use of renewable energy
- Green Environment and Regular tree planting.

## Criterion – VII

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Lecture notes and lesson plan prepared by each faculty.
- Improving soft skills of the student through training and placement.
- Improving teaching and technical skills of faculty by various programmes.
- Increasing placement opportunities for the student.
- Improving social involvement of the students through SANSKAR KENDRA and NSS.
- Value added courses improves the technical skills of the student.
- Most of the UG & PG courses are accredited by NBA. Steps are being taken to get all the programmes accredited.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Training & Placement Department conducted placement drives for the students. 24 Nos. of companies visited the University and 754 Nos. of students got offers from Campus Recruitment Programme.  
Expert lectures, Seminars and events conducted for the students.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

To adopt Non-negotiable academic calendar  
Faculty Drive for Higher studies and research

***\*Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

7.4 Contribution to environmental awareness / protection

- 1) Conducting Blood Donation Camp by SSG society
- 2) Collection of seeds from locally flourished trees and distribution of these seeds among various halls of residence.
- 3) Developing plantation in University and Hall premises
- 4) Optimal use of power in the campus
- 5) Solar power and back up, plantation & greening
- 6) Installation of Solar Rodent & Snake repellants in Hostels

7.5 Whether environmental audit was conducted?      Yes       No

**Strengths :**

Highly qualified and experienced faculty members with doctorates  
Premier Institute with strong alumni support  
Top rank students take admission  
TEQIP & RUSA funded University

**Weakness :**

Less number of patents  
Faculty exchange programme  
Students exchange programme  
Industries supported laboratories

**Opportunities :**

Potential to contribute to economic development of region  
Introduction of more innovative programme  
Introduction of value added and skill development programmes  
Curriculum and syllabus can be updated regularly to meet the ever changing industry requirements.

**Challenges :**

Collaboration with foreign universities to promote study abroad and student exchange programme  
Inculcate ethical values in the mind of students  
To upgrade laboratories  
Collaboration with foreign Universities for faculty exchange programme

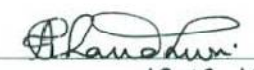
**8. Plans of Institutions for next year (2018-2019)**

- a) Conduct more job oriented certification courses
- b) To introduce PG courses in all the departments.
- c) NIRF-2019 Ranking Status to be applied
- d) Conduct of more International Conferences
- e) Modernisation of Laboratory and Central facility
- f) Completion of E-learning centre furnishing
- g) Conduct of 10<sup>th</sup> Annual Convocation-2018 in December.
- h) Preparation of Annual budget.

AQAR 2017-18 is passed in IQAC Meeting held on 30.06.2018, and subsequently in 21<sup>st</sup> Academic council meeting held on 12.11.2018 and approved in 28<sup>th</sup> Board of Management meeting held on 17.11.2018.

Name Prof. Bibhuti Bhushan Patil Name Prof. Atal Chaudhuri

**Director**  
IQAC, VSSUT  
Odisha-768018  
  
Signature of the Coordinator, IQAC

  
12.12.18  
Signature of the Chairperson, IQAC  
**Vice-Chancellor**  
V.S.S. University of Technology; Odisha  
Burla-768018

**Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA  
ACADEMIC & ACTIVITY CALENDAR OF ODD SEMESTER OF July' 2017 to Dec'-2017

**PART - A**

Sl. No.	Details of Academic Events	1 <sup>st</sup> Semester B.Tech/B.Arch./M.Tech./MCA /M.Phil/M.Sc./Ph.D./Integrated M.Sc. /Ist sem Executive B.Tech Prog. <b>(Tentative, Subjected to admission of student)</b>	3 <sup>rd</sup> , 5 <sup>th</sup> & 7 <sup>th</sup> Sem. B.Tech/ 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> & 9 <sup>th</sup> B.Arch. / 3 <sup>rd</sup> & 5 <sup>th</sup> Sem. MCA/ Ph.D/ 3 <sup>rd</sup> M.Tech. & M.Sc.,and 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> & 9 <sup>th</sup> Integ. M.Sc. & 2 <sup>nd</sup> Sem.Executive B.Tech. Programme
1	Registration/Admission of eligible students to Odd Semester (without fine)	-	14.07.2017 & 15.07.2017
2	Commencement of Odd Semester classes	-	17.07.2017
3	Last Date of Re-Admission to Odd Semester.(Year back cases and others)	05.08.2017	05.08.2017
4	Last Date of Re-Admission to Odd Semester.(Year back cases and others) with fines	12.08.2017	12.08.2017
5	Last date of the review meeting in the respective Departments and notification on the shortage of attendance by the concerned HOD with a copy of Departmental proceedings and notification to the Dean, Academic Affairs.	09.09.2017	09.09.2017
6	Mid-Semester Examination	20.09.2017 to 25.09.2017	20.09.2017 to 25.09.2017
7	Repeat Mid Semester Examinations	10.10.2017 to 14.10.2017	10.10.2017 to 14.10.2017
8	Last date of showing evaluated Mid semester/Repeat Mid Semester answer scripts to the students by the concerned subject teacher	10.10.2017 (Mid. Sem.)	10.10.2017 (Mid. Sem.)
		21.10.2017 (Repeat Mid.Sem.)	21.10.2017 (Repeat Mid.Sem.)
9	Athletic Meet	28.10.2017 & 29.10.2017	28.10.2017 & 29.10.2017
10	Last date of Theory class	21.11.2017	21.11.2017
11	Last date of submission of consolidated attendance shortage report to Dean, Academic Affairs by HODs in proper format.	22.11.2017	22.11.2017
12	End of Odd Semester Sessional, Lab, Project and Viva Voce Examination (Notification for eligible students by respective HODs about the programme schedule of Examination with a copy of the same to the office of COE & Dean, Academic Affairs for information)	15.11.2017 to 22.11.2017	15.11.2017 to 22.11.2017
13	Last date of Report to COE by HODs after Departmental meeting on Lab/Sessional/Viva/Seminar/Project etc. failure cases	25.11.2017	25.11.2017
14	Last date of Notification of debarring students from appearing End Semester Examination of theory papers for Attendance Shortage by the office of Dean, Academic Affairs	28.11.2017	28.11.2017
15	End Semester Examination (Theory Papers)	30.11.2017 to 14.12.2017	30.11.2017 to 14.12.2017
16	Last Date of showing evaluated Answer Book to students	26.12.2017	26.12.2017
17	Last date of Submission of Answer Book (Mid-Semester & End Semester) in the office of COE and on line submission of marks.	28.12.2017	28.12.2017
18	Last date of Publication of Odd Semester results	27.01.2018	27.01.2018

**PART - B**

Sl. No.	Details of Academic Events	All Even Semesters of B.Tech/B.Arch./MCA/M.Sc/M.Tech/ M.Phil/ Integrated M.Sc. & Ph.D (Tentative), 3 <sup>rd</sup> Sem. Executive B.Tech.Programme
1	Date of Subject Registration for Even Semesters 2018	02.01.2018 & 03.01.2018
2	Date of commencement of Even Semesters classes 2018	04.01.2018

Sd/-  
Dean, Academic Affairs



**PART - A**

Sl.	Details of Academic & Activity Events	Even Semester for all UG & PG and 3 <sup>rd</sup> Executive B.Tech
1	Registration of Regular students and Re-admission of eligible backlog students to Even Semester (without fine). Registration of students shall be done in respective department. But Re-admission of students shall be done in Academic Section.	03.01.2018 & 04.01.2018
2	Commencement of Even Semester classes	03.01.2018
3	Registration of Regular students and Re-admission of eligible backlog students to Even Semester (with fines). Registration of students shall be done in respective department. But Re-admission of students shall be done in Academic Section.	18.01.2018 & 19.01.2018
4	Samavesh & IUSM(Inter University Sports Meet)	10.02.2018 & 11.02.2018
5	Last date of the review meeting before Mid-Semester Examination in the respective departments and notification about attendance of the student by the concerned HOD (a copy of Departmental proceedings and notification to be sent to office of Dean, Academic Affairs)	20.02.2018
6	Mid-Semester Examination	22.02.2018 to 28.02.2018
7	Cultural Function	09.03.2018, 10.03. & 11.03.2018
8	Repeat Mid-Semester Examinations	13.03.2018 to 17.03.2018
9	Last date of showing evaluated mid semester answer scripts to the students by the concerned subject teacher	24.03.2018
10	Last date of completion of sessional/Lab/Project & Viva Examinations and theory classes	21.04.2018
11	Last date of submission of consolidated attendance shortage report to the office of the Dean, Academic Affairs by HODs in proper format.	23.04.2018
12	Last date of Report to COE by HODs after departmental meeting on Lab/Sessional/Viva/Seminar/Project etc. failure cases	26.04.2018
13	Date of Notification of debarring students from appearing examination for Attendance Shortage by Dean, Academic Affairs	28.04.2018
14	End Semester Examination (Theory Papers)	30.04.2018 to 11.05.2018
15	Registration of backlog papers by students for Supplementary Examinations in the office of COE	08.05.2018 to 23.06.2018
16	Last Date of showing evaluated Answer Book to students & Submission of Answer Scripts and marks of Mid-Semester, End Semester Theory/Sessional and Practical Exam. to Controller of Examns	19.05.2018
17	Submission of Draft Copy of Final thesis of 4 <sup>th</sup> Semester M.Tech/M.Sc./6 <sup>th</sup> Semester MCA / 2 <sup>nd</sup> Semester M.Phil/ 10 <sup>th</sup> Semester Int. M.Sc. in the respective Department with the approval of Supervisor	20.05.2018
18	Pre-Thesis submission seminar of 4 <sup>th</sup> Semester M.Tech/M.Sc./6 <sup>th</sup> Semester MCA / 2 <sup>nd</sup> Semester M.Phil/ 10 <sup>th</sup> Semester Int. M.Sc. in the respective Department Level	25.05.2018
19	Last date of forwarding of Final thesis of 4 <sup>th</sup> Semester M.Tech/M.Sc./6 <sup>th</sup> Semester MCA / 2 <sup>nd</sup> Semester M.Phil/ 10 <sup>th</sup> Semester Int. M.Sc. by the respective HODs to the office of Dean, PGS& R	30.05.2018
20	Last date of conduct of Viva Voce of 4 <sup>th</sup> Semester M.Tech./2 <sup>nd</sup> Semester M.Phil / 6 <sup>th</sup> Semester MCA/ 10 <sup>th</sup> Semester Int. M.Sc. by the External Examiners	08.06.2018
21	Publication of Even Semester results(Except 4 <sup>th</sup> Semester M.Tech/6 <sup>th</sup> Semester MCA/ 2 <sup>nd</sup> Semester M.Phil/ 10 <sup>th</sup> Semester Int.M.Sc. )	12.06.2018
22	Last date of submission of Final Thesis of 4 <sup>th</sup> Semester M.Tech/ 6 <sup>th</sup> Semester MCA & 2 <sup>nd</sup> Semester M.Phil.	27.06.2018
23	Commencement of Supplementary Examination	03.07.2018
24	Last date of submission of marks of 4 <sup>th</sup> Sem. M.Tech/2 <sup>nd</sup> Semester M.Phil and 6 <sup>th</sup> Semester MCA by the Department.	07.07.2018
25	Publication of 4 <sup>th</sup> Semester M.Tech/6 <sup>th</sup> Semester MCA / 2 <sup>nd</sup> Semester M.Phil / 10 <sup>th</sup> Semester Int. M.Sc. results	16.07.2018
26	Last Date of showing evaluated Answer Book of Supp.Exam.to students & submission of supplementary marks	24.07.2018
27	Publication of Supplementary Results	04.08.2018

**PART – B**

Sl. No.		Odd Semester for all UG & PG and Sem. Executive B.Tech Prog.
1	Date of Subject Registration for Odd Semesters 2018	13.07.2018 & 14.07.2018
2	Date of commencement of Odd Semesters classes 2018	13.07.2018
3	Date of commencement of 1 <sup>st</sup> Semester B.Tech, B.Arch, MCA & 5yrs Int. M.Sc. classes 2018	13.08.2018





Students with VSLV Satellite Model



Group meeting of students and faculty



Winner of 15 Lakhs award in DST Birac Innovation Challenge and Student Winners at Sochi Russia World Youth Festival



Rice Transplanter – Farmer Innovation



Launching of VSLV Satellite upto 4km

