ANNUAL REPORT 2022-23





VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLADIST. SAMBALPUR – 768 018, ODISHA

www.vssut.ac.in

VICE CHANCELLOR'S MESSAGE



*Prof. Banshidhar Majhi (Vice Chancellor)*Vice Chancellor, VSSUT
+91-8480441672 (0663)-2430211 vc@vssut.ac.in

For last 64 years, VSSUT has been the leading canter of excellence for Technical Education. The present report was being put together to highlight the salient features of University's progress during 2021-22.

While we do face formidable challenges in meeting our commitment of providing high quality facilities to the teachers and students, we shall not leave any stone unturned to improve our thinking and action on year to year basis. Over the last few years TEQIP has been the major supporting scheme for all-round development of this legendary institute. Hope, in future, it will strengthen our hands to attain great academic height that we are aiming to.

1. INSTITUTE'S BASIC INFORMATION

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 1st 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 by University Grants Commission (UGC), New Delhiunder Section 2(f) & 12(B) of UGC Act.

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

The University occupies nearly 300 acres of prime land in Burla. Indeed the contribution from the Irrigation Department of Odisha was the decisive element in determining the location of this University. With a glorious history and strong academics staff, VSSUT is strongly identified with engineering education in India. Since its inception and foundation, VSSUT has constantly led the way in reform movements, taking pivotal roles in reconstruction, modernization and administration of the society. The University has a strong alumni base and most of them occupying coveted positions in many educational, industrial and research organization all over the world. The efforts and expertise of VSSUT graduates have been the major contribution in planning and construction of Odisha infrastructure.

VSSUT provides its students with modern educational facilities while retaining traditional values as well as using its strong industrial contents to mold young, talented individuals who can compete in the arena. The aim of VSSUT is to rank among leading University globally. Consequently, mission is to be competitive not only in India, but all over the world. The University has adopted a dynamic, global, 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 development facilities in various department and central facilities such as computer centre, library, internet centre, central research facility and workshop. Government of Odisha has recently funded to establish an Innovation-cum-Incubation Centre at VSSUT campus. Separate halls of residence are available for the students in the campus. Semester pattern system is being followed for both Undergraduate and Post Graduate Programmes and the medium of instruction is English. The syllabi are updated at regular intervals keeping in pace with the advancement 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.

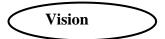
The following academic programmes are available at VSSUT

Bachelor of Technology (B.Tech)
Bachelor of Achitecture (B.Arch.)
Master of Technology (M.Tech)
Dual Degree Programme (B.Tech.& M.Tech.)
Master of Science (M.Sc.)
Integrated M.Sc.
Master in Computer Application (MCA)
Master in Philosophy (M.Phil)
Doctor of Philosophy (Ph.D.)

Seven UG programmes and Eight PG programmes of the University have got NBA Accreditation. The University has also got NAAC Accreditation during 2016-17. Admissions to various Masters programmes are conducted by the University. Admission into B.Tech. programme is made based on the all India rank secured in JEE (Main) through OJEE. However, admission to B.Tech.(LE) as well as MCA programmes are based on OJEE rank through Odisha Joint Entrance Examination(OJEE). All the programmes are approved by AICTE. Admission to 5 yrs. Integrated M.Sc. Programmes are done through an entrance examination conducted by VSSUT. The University has a QIP centre for Ph.D. Programme in engineering disciplines. It is also a National Doctoral Fellowship centre.

The Training and Placement section of the University plays a very important role in counseling and guiding the students for their successful career placement. More than 50 reputed National and Multinational companies visit VSSUT for campus recruitment annually. 100% of the eligible 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 company officials. Further, the students of this University are doing extremely well in national level examinations like GATE, CAT, MAT, XAT, GRE, TOEFEL, IES and other competitive examinations. The students have taken up challenges in innovations for betterment of the society

VISION & MISSION



To emerge as an internationally acclaimed Technical University to impart futuristic technical education and creation of vibrant research enterprises that produces 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.



Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its educational 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 academic 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 as appropriate to include broader perspectives and
- Creation of service opportunity for the upliftment of society at large.

INFORMATION REGARDING AFFILIATING UNIVERSITY

The Veer Surendra Sai University of Technology, Burla is a non-affiliating unitary university established under the Act 9 of 2009 passed in the Odisha State Legislative Assembly.

INFORMATION REGARDING ACADEMIC AUTONOMY

The University enjoys both academic and administrative autonomy being a unitary one.

GOVERNANCE STRUCTURE

University Administration

Chancellor : His Excellency Prof. Ganeshi Lal, Governor of Odisha

Vice Chancellor : Prof. Banshidhar Majhi

Registrar : Shri Pradeep Dang OAS (S)

Comptroller of Finance : Shri, Tularam Kalet OFS

Controller of Examinations: Dr. Debasish Mishra

Members of Board of Management

- 1. Prof. Banshidhar Majhi, Vice Chancellor, VSSUT, Burla (Ex-officio)
- 2. Smt. Usha Padhee, IAS, Principal Secretary, SD & TE Dept., Govt. of Odisha, Bhubaneswar
- 3. Director of Technical Education & Training, Odisha, Killa Maidan, Buxibazar, Cuttack-753001(Exofficio)
- 4. The Addditional Secretary to Govt. (ES-II), Finance Department, Govt. of Odisha, Bhubaneswar-1
- 5. Hon'ble Vice-Chancellor, Biju Pattnaik University of Technology, Odisha, Rourkela
- 6. Shree Pradeep Dang, Registrar & Convenor- Secretary, VSSUT, Burla
- 7. Prof. Chintamani Mahapatra, Centre for Canadian, US&Latin American Studies, School of International Studies, Jawaharlal Nehru University, New Delhi-110067
- 8. Dr. Damodar Acharya, Ex-Director, IIT Kharagpur, Ex-Chairman, AICTE, Bhubaneswar-751019
- 9. Prof. S. Karmalkar, Director, IIT, Bhubaneswar.
- 10. Er. Ashesh Padhy, VP& Head, Project JSW Paradip steel project.
- 11. Prof.(Dr.) Sukumar Mishra, Professor in Electrical Engg, IIT Delhi
- 12. Shri Sarada Prasad Nayak, MLA, Sector-1, Rourkela, Sundargarh
- 13. Shri Sudam Marandi, MLA, Bhanjpur, Mayurbhanj.
- 14. Prof. P.C. Swain, Professor Dept. of Civil Engg, VSSUT, Burla.
- 15. Prof. Sidharth Panda, Profssor, Dept. of Electrical Engg VSSUT, Burla
- 16. Prof. S.K. Patro, Professor in Civil. Engg, VSS University of Technology
- 17. Prof. Debadutta Mishra, Professor in Prod. Engineering VSSUT, Burla

DEANS & OFFICERS

Director IQAC : Prof. A.N. NAYAK

Faculty & Planning : Prof. R.K. Panigrahi

Students' Welfare : Prof. S.K. Patro

Academic Affairs : Prof. S. Agrawal

CDCE : Prof. D. Dhupal

SRIC : Prof. S.K. Sarangi

PGS & R : Prof. H.S. Behera

Dean, Alumni & Internatinal Relations: Prof. Anil Kumar Kar

Dean, School of Computer Science: Prof. P.K. Hota

Dean, School of Mechanical Science: Prof. D. Mishra

Dean, School of Electrical Science : Prof. Sidharth Panda

Dean, School of Humanities & Basic Science: Prof. J.P. Panda

Dean School of Chemical & Bio Science : Prof. J. Rana

HODs

Architecture : Dr. Bharati Mohapatra

Chemical Engineering : Dr. P.C. Jena

Chemistry : Prof. P.R. Mohapatra

Civil Engineering : Dr. R.R. Dash

Coordinator, Computer Application : Dr. (Mrs.)Sucheta Panda

Computer Science & Engg. : Dr. Suvasini Panigrahi

Electrical Engineering : Dr. Papia Ray

Electrical & Electronics Engg. : Dr. Gyanaranjan Biswal

Electronics & TC Engineering : Dr. H.K. Sahoo

Humanities : Dr. M.R. Panigrahi

Information Technology : Dr. P.K. Sahu

Mathematics : Dr. M.K. Jena

Mechanical Engineering : Dr. Sumanta Panda

Metallurgy & Materials Engineering : Dr. S.K.Badjena

Physics : Prof. G.Nath

Production Engineering : Dr. A.K. Rout

Central Workship : Dr. R.K. Behera

PICs

Central Library : Dr. P.K. Pradhan

Central Internet : Dr. Manas Ranjan Kabat

Central Computer facility : Dr. Arunanshu Mahapatra

Central Workshop : Dr. Rabindra Behera

Guest House : Dr. Nilamani Bhoi

Central Transport : Dr. Rabindra Behera

Central Store & Purchase : Dr. S.K. Paikray

Civil Works : Dr. Debabrata Giri

Electrical Maintenance : Dr. D.K. Lal

Examination : Dr. Padmanav Dash

Training & Placement : Prof. Prasanta Nanda

Telephone : Dr. P.C. Jena

Alumni Relations : Dr. Sanjay Agrawal

University Seminar : Dr. Sasmita Acharya

Time Table : Dr. Sarojini Pattnaik

Horticulture : Dr. Pandav Patra

University Canteen : Dr. Trinath Biswal

MO SARKAR & E-ABHIYOG : Dr. M. Pradhan

Industry-Institute Interaction : Prof. A.N. Nayak

Public Relations : Prof. P.C. Swain & Prof P. Mohapatra

House Allotment : Prof. S.S. Das

Innovation : Prof. D. Mishra

Lawn & Gardens (HoRs) : Dr. Lipika Parida

Lawn & Gardens (Univ. Residences) : Dr. Lipika Parida

IPR : Dr. Bikramaditya Das

MO College Abhihan : Prof. A.K. Kar

PIC, Convocation : Prof. S. S Das

Land Settlement : Prof. S. Agrawal

Security : Dr. A.K. Panda

Automation : Dr. S. Majhi

CRF : Dr. T.R. Mohapatra

FAA, RTI : Prof. P.K. Kar

PIO, RTI : Dr. A.K. Sahu

Maintenance Engineer I/C : Dr. R.K. Dandpat

HALL OF RESIDENCE ADMINISTRATION

Dean, Students Welfare Prof. S.K. Patro

Marichi Hall of Residence

Warden Dr. Bidyadhar Rout

Asst. Warden Dr. Deepak Kumar Lal

Atri Hall of Residence

Warden Dr. Prakash Chandra Mishra

Asst. Warden Dr. Mohapatra Prakash K. Sahoo

Kratu Hall of Residence

Warden Dr. Sushanta Kumar Badjena

Asst. Warden Er. Suresh Kumar Srichandan

Arundhati Hall of Residence

Warden Dr. Soumya Saswati Sarangi

Asst. Warden

Er. Ananda Kumar Behera

Anuradha Hall of Residence

Warden Dr. Renu Prava Dalai

Asst. Warden Dr. Jatin Kumar Pradhan

Vasistha Hall of Residence

Warden Dr. Arunanshu Mohapatra

Asst. Warden Dr. Kiran Kumar Ekka

Visakha Hall of Residence

Warden Dr. Raseswari Pradhan

Asst. Warden Er. Amit Kumar Behera

Vasundhra Hall of Residence

Warden Dr. Sasmita Behera

Asst. Warden Dr. Ashok Kumar Sahoo

Pulastya Hall of Residence

Warden Dr. Debabrata Giri

Asst. Warden Er. Pratap Kumar Pradhan

Rohini Hall of Residence

Warden Dr. Nibedita Patel

Asst. Warden Er. Amit Mallick

Pulaha Hall of Residence

Warden Dr Anil Kumar Kar

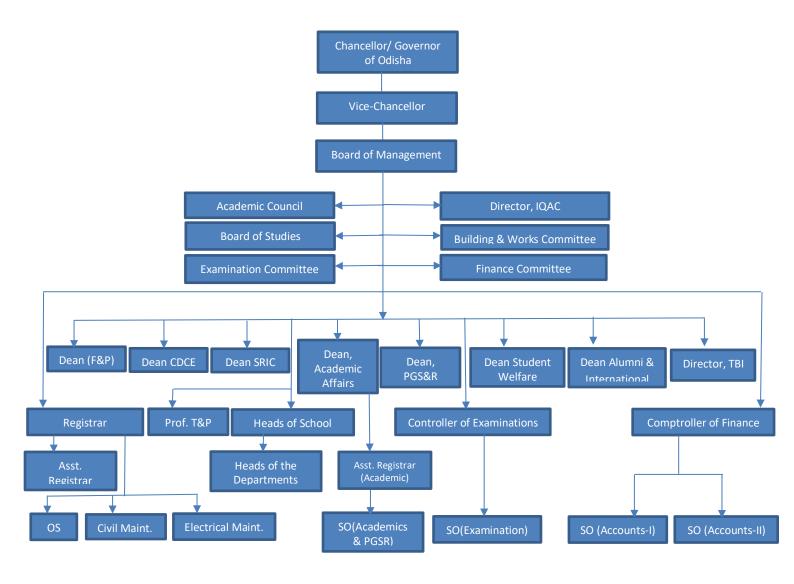
Asst. Warden Er. Santosh Kumar Sahu

Asst. Warden Dr. Bigyan Ranjan Jali

Asst. Warden Er. Susant Kumar Sial

Asst. Warden Ar. Amit Chatterjee

2. ORGANISATIONAL STRUCTURE



UNIVERSITY NEW BUILDING











ACADEMIC CALENDAR

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA ACADEMIC & ACTIVITY CALENDAR OF ODD SEMESTER OF Aug' 2022 to Dec'-2022 PART - A

SI. No.	Details of Academic Events	3 rd Semester B.Tech/B.Arch./M.Tech./ MCA/M.Sc./ Ph.D./ Integrated M.Sc.	5 th & 7 th Sem. B.Tech/ 5 th , 7 th & 9 th Sem.B.Arch./ 5 th , 7 th & 9 th Sem.Dual Degree / 5 th , 7 th & 9 th Integrated M.Sc.
	(A) Registration of Regular students (without fine) to Odd Semesters. Registration of students shall be done in respective department.	08.8.2022 & 10.08.2022	01.08.2022 to 03.08.2022
1	(B) Re-admission of eligible backlog students to Odd Semester (without fine). Re-admission of students shall be done in Academic Section.	08.8.2022 & 10.08.2022	01.08.2022 to 03.08.2022
2	Commencement of Odd Semester classes	08.08.2022	01.08.2022
3	(A) Registration of Regular students (with fine) to Odd Semesters. Registration of students shall be done in respective department.	26.08.2022 & 27.08.2022	19.08.2022 & 20.08.2022
	(B) Re-admission of eligible backlog students to Odd Semester (with fine). Re-admission of students shall be done in Academic Section.	26.08.2022 & 27.08.2022	26.08.2022 & 27.08.2022
4	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.)	15.10.2022	15.10.2022
5	Mid-Semester Examination	17.10.2022 to 22.10.2022	17.10.2022 to 22.10.2022
6	Repeat Mid Semester Examinations starts from	09.11.2022	09.11.2022
7	Last date of showing evaluated Mid semester/Repeat Mid Semester answer scripts to the students by the concerned subject teacher	19.11.2022	19.11.2022
8	Last date of completion of sessional/Lab/Project & Viva Examination and Theory Classes	03.12.2022	03.12.2022
9	Last date of submission of consolidated attendance shortage report to the office Dean, Academic Affairs by HODs in proper format.	05.12.2022	05.12.2022
10	Last date of Report to COE by HODs after Departmental meeting on Lab/Sessional/Viva/Seminar/Project etc. failure cases.	05.12.2022	05.12.2022
11	Date of Notification of debarring students from appearing End Semester Examination for Attendance Shortage by the office of Dean, Academic Affairs	09.12.2022	09.12.2022
12	End Semester Examination (Theory Papers)	12.12.2022 to 24.12.2022	12.12.2022 to 24.12.2022
13	Last Date of evaluation of End Semester Answer Book	10.01.2023	10.01.2023
14	Last Date of showing evaluated End Semester Answer Book to students	10.01.2023	10.01.2023
15	Last date of Submission of Answer Book (Mid-Semester & End Semester) in the office of COE and on line submission of marks.	10.01.2023	10.01.2023
16	Last date of Publication of Odd Semester results	28.01.2023 - B	28.01.2023

SI. No.	Details of Academic Events	All Even Semesters of B.Tech/B.Arch./MCA/M.Sc/M.Tech/ Dual Degree/Integrated M.Sc, & Ph.D
1	Date of Subject Registration for Even Semesters 2023	02.01.2023 & 04.01.2023
2	Date of commencement of Even Semesters classes 2023	02.01.2023

N.B: For theory classes, if the no. of working days available is less than 90 days, extra classes are to be taken by concerned subject teachers to compensate the study period of 90 days.

Memo No.VSSUT/ACD/ 665 / /2022 Copy to :

 University Notice Board /All Deans/ All HODs/Registrar/Wardens of All Halls of Residence/ COE/COF/All PICs for information & necessary action.

2. Dean, F&P for information with a request to facilitate in uploading this notice in the University Website for wide circulation.

3. P.A. to V.C.for kind information of Hon'ble Vice Chancellor.

Dean, Academic 2

Dean, Academic Adam

Dated: 6 2497/2022

NBA Accreditation

The University has also applied for the accreditation of 1 UG and 4 PG programmes for which the NBA Expert team will visit shortly. Proposal submitted for extension of accreditation period of UG Programme in Civil Engineering beyond 2021. SAR submitted to NBA for accreditation of PG programme in Power Electronics and Drives.

Extension of Approval and Addition of New Course

The AICTE has accorded extension of approval to the existing B.Tech., M.Tech and MCA programmes for the academic session 2022-23. The Council of Architecture also accorded extension of approval to existing B.Arch. Course for the academic session 2022-23.

MoU Signed

The University has signed a MoU with Odisha State Open University, Sambalpur on 10th June, 2022. In order to enhance relations between the two Universities and to develop academic and cultural interchange in the area of education, research and other activities.

NIRF Ranking

The University is continuously improving its ranking from 150 to 126 and has further improved its ranking to 119 in the NIRF ranking 2020 (Engg.), 116 in 2021and 111 in 2022 conducted by Ministry of Human Resource Development, Govt. of India. The information for NIRF ranking -2023 has already been submitted by the University in NIRF portal.

Visit of Expert Team of Govt.of Odisha

The expert team of Govt. of Odisha visited the University and Hon'ble Chief Minister of Odisha reviewed the proposal on 17th September, 2022 and declared a grant of Rs.2000 crores for the upgradation of the University.

ACADEMIC PERFORMANCE / DEPARTMENT ACTIVITIES

Development of Laboratories

The university is in the process of upgrading the laboratories by procuring new equipments. The university has also procured equipments and software of various laboratories of departments. The university has modernised Class rooms, seminar rooms and has procured additional Furniture for class room and staff rooms. The Class rooms are converted to Smart Class rooms with digital smart boards.

Grants from the State Government

The University is grateful to the Government of Odisha for the release of funds at regular interval under Plan and Non-Plan Grants. The University has received the following amount from the Govt. of Odisha under Non-plan and Plan grants during the year 2022-23.

Head	Amount
Non-Plan	Rs.88.54 crores
Plan	Nil

Sponsored Research & Industrial Consultancy

Sponsored Research & Industrial Consultancy division of the University has an outstanding record in obtaining and applying research projects under different schemes of State and Central Government last year. The University has received 6 Nos. of research projects during 2022-23. The total grant received from DST, Odisha during 2022-23 is Rs. ₹ 38.26 lakhs. The following project grants were received during 2022-23 by the various department of the University.

Sl.No.	Scheme	Principal Investigator	Amount in Rs.							
1.	DST	Dr. Ramakrishna. Dandapat	6.28							
2.	DST	Dr. Nutan. Saha	5.92							
2	Det	Da Carrestila Misha	6.16							
3.	DST	Dr. Swagatika. Mishra	6.16							
4.	DST	Prof. Sushanta. K. Badjena	6.30							
5.	DST	Dr. Soumya S. Sarangi	6.82							
6.	DST	Dr. Pankaj C. Jena	6.78							
	TOTAL Rs.38.26 lakhs									

Consultancy Activities

The University has taken up 37 Nos. of consultancy projects of state and central government organisations and industries worth of about Rs. **1.37 Crores**.

Distinction and Achievements of Faculty members

Prestigious Assignment

The university has highly talented faculty members dedicated to teaching and research. They have been invited to deliver Key note lectures, chair national and international conferences in India and abroad. A large number of faculty members are functioning as reviewers for a number of reputed national and international Journals. They have been invited to be expert member of AICTE, NAAC, NBA, Odisha Public Service commission and other universities.

Research & Development

The faculty members of the university are engaged in good quality research and are supervising M.Tech., M.Phil. and Ph.D. Scholars. During 2022-23, 42 Nos. Ph.D. Scholars were admitted for pursuing their research work in the University. In addition, 3 international students have been admitted in the University. 3 Nos. of candidates have taken admission into full time Ph. D. programme under AICTE Doctoral Fellowship (ADF-2022) and 03 research scholars are continuing their research under AICTE Quality Improvement Programme. The faculty members have published 538 nos. of research papers in peer reviewed research journals and also published 62 Nos. of Books and Chapters for Books. 332 conference papers have been published by the faculty members of various departments of the University.

Conference/Workshop/Seminar Organised

Seventeen nos. of conference / Workshop / Seminar organised in the University during 2022-23.

Conferences and Workshop Attended: 42 faculty members have attended International/National conferences/Short term Courses/Workshop/Industrial training in various field.

Twenty four nos. of Awards/ Prizes Received by the Faculty members.

Twenty one nos. of Patent applied / published in different areas.

Infrastructure Development

The University has taken up the construction/Renovation work of several buildings to meet the increasing demand for Class rooms, Departments and residential purposes. The following works has been taken up by the University through CPWD, IDCO and State R&B.

Completed Projects:

- 1) Construction of New Computer Centre (CPWD)
- 2) Construction of Ramp for differently abled persons (R&B)

Ongoing Projects:

- 1) Extension / Renovation of Central Library (R&B)
- 2) Renovation of Gym (CPWD)
- 3) Renovation of Toilets of University building (GPHD)
- 4) Extension of Hydraulics Laboratory is in progress (R&B)
- 5) Construction of Boundary Wall is in progress (R&B)
- 6) Construction of Administrative-cum-Academic Building (IDCO)
- 7) Construction of Vice-Chancellor's Residence (CPWD)
- 8) Construction of 300 seated Ladies Hostel (CPWD)
- 9) Construction of Architecture Department Building (CPWD)
- 10) Construction of Training & Placement Cell (CPWD)
- 11) Construction of Faculty Quarters (CPWD)
- 12) Construction of Sports Complex (CPWD)

Future Projects:

- 1. Construction of Market Complex inside the hostel campus
- 2. Special Repair of 200 Nos. of existing quarters.
- 3. Construction of Schools of Sciences

Library Activities

The Central Library has received the subscription of following Journals

- I. Elsevier's Science Direct
- II. Web of Science
- III. Turnitin i Thenticate (Plagiarism Software)

IV. Other Online resources subscribed from e-Shodh Sindhu (eSS), Inflibnet as

- 1. American Chemical Society
- 2. American Institute of Physics
- 3. ASCE Journals Online
- 4. ASME Journals Online
- 5. Institute for Studies in Industrial Development (ISID) Database
- 6. JGate Plus (JCCC)
- 7. Springer Link
- 8. Taylor and Francis

Students' Activities

NCC and NSS activities have been performed by the students. The following society functions were conducted during 2022-23 :

Annual Sport Meet

27th -28th January, 2023

• Social responsibility

SANSKAR KENDRA

The students of the university have taken up social responsibilities by providing education to school going children of nearby locality. Sanskar Kendra have organised health camp, cleanliness programs and awareness camps for the children of the nearby villages.

STUDENTS' INTAKE STRENGTH

Programmes	Courses	Intake
	B. Tech	976
IIC.	B. Arch	20
UG	Dual Degree (B. Tech & M. Tech)	36
	Executive B. Tech	36
	M. Tech	360
	MCA	30
PG	M. Sc.	72
	Int. M. Sc.	54
	M. Phil	30
Ph. D.		90 (Approx)

Admission Data (2022)

UG, Dual Degree & MCA admission:

Sl.No.	Branch	General	SC	ST	Total
1	Chemical Engg.	69	7	1	77
2	Civil Engg.	116	13	14	143
3	Computer Sc. & Engg.	64	5	9	78
4	Electrical Engg.	129	12	15	156
5	Electrical & Electronics Engg.	67	5	6	78
6	Electronics & TC Engg.	131	12	13	156
7	Information Technology	65	6	7	78
8	Mechanical Engg.	126	12	18	156
9	Metallurgical & Materials Engg.	60	4	2	66

10	Production Engg.	28	6	0	34
11	Architecture	18	0	0	18
12	Chemical Engg.(LE)	5	1	0	6
13	Civil Engg. (LE)	8	0	3	11
14	Computer Sc. & Engg. (LE)	6	0	0	6
15	Electrical Engg. (LE)	11	0	1	12
16	Electrical & Electronics Engg. (LE)	5	1	0	6
17	Electronics & TC Engg. (LE)	12	0	0	12
18	Information Technology(LE)	6	0	0	6
19	Mechanical Engg. (LE)	11	1	0	12
20	Metallurgical & Materials Engg. (LE)	4	0	2	6
21	Production Engg. (LE)	3	0	1	4
22	MCA	31	4	4	39
	Total	975	89	96	1160

PG/Ph.D. Admission-2022

Year	Name of Course	Total Students
2022-23	M.Tech	120
	M.Sc.	67
	Integrated M.Sc	49
	Ph.D.	42

PASS OUT STUDENTS' (RESULT – 2022)

PROGRAMME	BRANCH	NO. OF STUDENTS	TOTAL							
	CHEMICAL ENGINEERING	55								
	CIVIL ENGINEERING	109								
	COMPUTER SCIENCE & ENGINEERING	66								
B.TECH B.ARCH M.TECH MCA M.SC INT. DUAL DEGREE INT. M.SC.	ELECTRICAL ENGINEERING	135								
	ELECTRICAL & ELECTRONICS ENGINEERING	43								
R TECH	ELECTRONICS & TELECOMMUNICATION ENGINEERING	108	768							
Dilleil	INFORMATION TECHNOLOGY	46								
	MECHANICAL ENGINEERING	107								
	METALLURGICAL & MATERIALS ENGINEERING	55								
	PRODUCTION ENGINEERING	44								
B.ARCH	ARCHITECTURE	16	16							
	CIVIL ENGINEERING									
	GEOTECHNICAL ENGINEERING	13								
	STRUCTURAL ENGINEERING	13								
	TRANSPORTATION ENGINEERING	15								
	WATER RESOURCES ENGINEERING	13								
	COMPUTER SCIENCE & ENGINEERING									
	COMPUTER SCIENCE & ENGINEERING	14								
		14								
	ELECTRICAL ENGINEERING									
	CONTROL AND INSTRUMENTATION ENGINEERING	5								
		14	168							
		12	100							
м.тесн	ENGINEERING									
		11								
	MECHANICAL ENGINEERING									
	HEAT POWER ENGINEERING	10								
	MACHINE DESIGN & ANALYSIS	10								
	PRODUCTION ENGINEERING	17								
	INDUSTRIAL METALLURGY 15									
		6								
MCA		56	56							
		13								
M.SC	,	15	57							
		15								
*****		14								
		15	31							
DEGKEE		15 20								
INT MCC		18	57							
IN1. WI.SC.		19	37							
		19								
		4								
		1								
		11								
		1								
_		7								
Ph.D		4	60							
		8								
		7								
		5								
		6								
		5								
	POWER ELECTRONICS CONTROL & DRIVES POWER SYSTEM ENGINEERING ELECTRONICS & TELECOMMUNICATION ENGINEERING VLSI SIGNAL PROCESSING MECHANICAL ENGINEERING HEAT POWER ENGINEERING MACHINE DESIGN & ANALYSIS PRODUCTION ENGINEERING METALLURGICAL & METERIALS ENGINEERING INDUSTRIAL METALLURGY PRODUCTION ENGINNERING MANUFACTURING SYSTEM ENGINEERING MASTER IN COMPUTER APPLICATION CHEMISTRY (INDUSTRIAL CHEMISTRY) CHEMISTRY (ORGANIC CHEMISTRY) MATHEMATICS (APPLIED MATHEMATICS) PHYSICS (APPLIED PHYSICS) INT. DUAL DEGREE CIVIL ENGINEERING CHEMISTRY MATHEMATICS PHYSICS CHEMICAL ENGINEERING CIVIL ENGINEERING CIVIL ENGINEERING CIVIL ENGINEERING CIVIL ENGINEERING COMPUTER SCIENCE & ENGINEERING ELECTRICAL & ELECTRONICS ENGINEERING ELECTRICAL & ELECTRONICS ENGINEERING ELECTRICAL & ELECTRONICS ENGINEERING ELECTRICAL & ELECTRONICS ENGINEERING									
	TO'	TAL	1213							

Campus Placement

Around 57 Nos. of companies have so far visited the University during 2022-22 for Recruitment of final year students and 756 students got offer in reputed companies.

PLACEMENT - 2022-23

	Name of the														M.Tec h/Mte ch (DD)	
SI.	recruiting	СТС													/Int.	
No	Companies	(LPA)	MME	EE	EEE	ME	CE	CSE	IT	ETC	PE	ChE	CA	Arch	MSc	Total
1	INFOSYS	3.6			1			2	1	1						5
2	INFOSYS DSE	6.25						1		1						2
	COGNIZANT		_	22	_		10		_	22	4.4	6	_		4	126
3	GENC COGNIZANT	4	2	22	6	9	19	8	7	23	14	6	6		4	126
4	GENC ELEVATE	4.5			3			2	6	3						14
5	COGNIZANT NEXT	6.7		1	1			1								3
6	MARQUEE SEMICONDUCTOR	3.6								7					4	11
7	CISCO	15						3	1						-	4
8	TCS	3.6							1							1
9	CREDIT SUISSE	15.24						7	5							12
10	INCTURE	7.25			1	1		4	1	4						11
11	AMAZON SDE	44.14								1						1
12	TATA STEEL PPO	11.88			1					1						2
13	DELOITTE	7.6		7	9	2	2	6	6	12		2	1			47
14	AMAZON INTERN	10				1		1	2							4
15	Asiczen (VLSI)	4.34		1	1					2						4
16	Asiczen (IOT)	3.22		1									1			2
17	DCM SHRIRAM	5.5		3								2				5
18	SEMISIKUN TECH									2					2	4
19	Capgemini SE	4.25	2	10	6	4	11	6	5	10	9	2	3		2	70
20	Capgemini SE	5.75	1	1	3				4	1			1			11
21	Capgemini Senior SE	7.5		2	2					6						10
22	AESS SOLUTIONS	5					1			2	1					4
23	KFINTECH	7		1	1			1	1	1						5
24	KREETI	6.3											1			1
25	L&T	6		8	3	20	2			1				1	2	37
26	GLOBAL HITACHI	5.5		3	1				1	1						6
27	AQUAGREEN	4.22		2			2									4
28	ISERVEU	5.5	1	1			3	2	3	6	3	1	5			25

	1	1 1	1	i	I	i	i	I	ı	i	ı	1	1 1	1	<u> </u>	
29	NET CRACKER	8			2			1		1						4
30	ADANI	6.5	3	6		5	3			1	3	1				22
31	Scaledge	4.8								6						6
32	Scaledge	5.2													3	3
33	IBM codeknack	4		1												1
	RELIANCE JIO			_	_	_	_									
34	MOBILITY	5.5		4	2	3	2									11
35	MARUTI SUZUKI	10.34		2		11										13
36	ADITYA BIRLA	7	8	6		8	5									27
37	TATA POWER	6.06		43	7											50
38	SMS	5.5				6										6
39	TCS DIGITAL	7						3	1	1	1					6
40	TCS NINJA	3.36	3	13	3	5	1	4	3	11	5	3	1		5	57
	TATA AUTOCOMP										_					
41	(GET) TATA	5.5			1	1					2					4
	AUTOCOMP(PGET															
42)	6													4	4
43	HCL	4		1	1			2	1	5						10
44	JSW	9.5	4	2		6					1	6				19
45	LATENT VIEW	9.2						1								1
	L&T															
46	infrastructure ltd	5.17													2	2
47	ACMEGRADE	4				3	2	1	1	2	2	3				14
48	HSBC	9						1	1							2
49	PRADAN	7					3					3			1	7
50	PREGRAD	4	1			1	2	1	1							6
51	LTTS	4		1	1	4		1	2	8						17
F 2	ACCOLITE								_							1
52	DIGITAL	8							1							1
53	SMARTSOCS	5													1	1
	TOTAL		25	142	56	90	58	59	55	120	41	29	19	1	30	725

Brief notes on Budget Estimate 2022-23

The budget provision of Rs. 101,69,12,204/- for the year 2022-23 has been made on basis of actual requirement out of which Rs.51,24,22,640/- is calculated towards salary (Pay, DA, OA, HRA & RCM) and Rs.50,44,89,564/- towards non-salary which consists Pension, Arrear Pension, Electric & Water charges, Office Contingencies, Other expenditures etc.

Financial	Budget I	Provision	Total	Sanctioned by Government		Total
Year	Salary	Non-salary		Salary	Non-salary	
2020-21	43,36,93,280	20,87,69,200	64,24,62,480	43,18,03,000	17,35,28,000	60,53,31,000
2021-22	46,18,71,860	31,14,73,400	77,33,45,260	46,38,23,000	19,97,91,000	66,36,14,000
2022-23	51,24,22,640	50,44,89,564	101,69,12,204	81,98,97,000	6,55,13,000	88,54,10,000

INFRASTRUCTURE ACADEMIC, LIBRARY, COMPUTER CENTRE, RESIDENTIAL, HOSTELS ETC

INFRASTRUCTURE

Land and Buildings

S.N.	Description	Details	Area/Plinth Area
1.	LAND IN USE	University	36.5 Acres
		Hall of Residences	28.0 Acres
		Staff Quarters	69.1 Acres
		Total	133.6 Acres
	FREE LAND AVAILABLE FOR EXTENSION		266.77Acres
	GOVT LAND AVAILABLE FOR EXTENSION		102.00 Acres
		Grand Total	502.37 Acres
2.	UNIVERSITY BUILDING DETAILS	Main building of plinth area	1,22,715 sft
		Workshop plinth area	27858 sft
		Workshop office	3100 sft
		High voltage Laboratory	1200 sft

		Cycle shed	4600 sft
		Garage	1660 sft
		Guest House	3120 sft
		Robotic Club	2700 sft
		Auditorium	14850 sft
		N.C.C. Building	6000 sft
		Gymnasium	3300 sft
		Athletic Building	1730 sft
		Maintenance office	3200 sft
		Dispensary	2560 sft
		Computer Science & Engg. Building	19010 sft
		Workshop Extension	2610 sft
		Hydraulics Laboratory extension	1140 sft
		Cycle sheds	2120 sft
		Library Building	14050 sft
		Administrative Building	8530 sft
		Extension of Electrical & ELTCE Building	2880 sft
		Community centre	2700 sft
		Total	251633 sft.
3.	HALL OF RESIDENCE DETAILS	Atri Hall (For Boys)	47260 sft
		Kratu Hall (For Boys)	47260 sft
		Vasistha Hall (For Boys)	47260 sft

		Marichi Hall (For B	oys)	47260 sft	
		Pulastya Hall (For E	Pulastya Hall (For Boys)		
		Angira Hall (For Gi	rls)	24160 sft.	
		Arundhati Hall (For	Girls)	58100 sft	
		Anuradha Hall (For	Girls)	35000 sft.	
		Visakha Hall (For G	Sirls)	35000 sft.	
		Rohini Hall (For Gi	irls)	35000 sft.	
		Total		423560 sft	
4.	STAFF QUARTERS DETAILS	A-1 Bungalow	1 No.	4725 sft	
		С	4 Nos.	12352 sft	
		D/TD	11 Nos.	15400 sft	
		E	18 Nos	20880 sft	
		F	100 Nos.	88000 sft	
		G	29 Nos.	13050 sft	
		RS	7 Nos.	3805 sft	
		4R	5 Nos.	9750 sft	
		F4R	4 Nos.	7320 sft	
		M4R	4 Nos.	7200 sft	
		5R	6 Nos.	11220 sft	
		3R	27 Nos.	29750 sft	
		F 3R	8 Nos.	8448 sft	
		Modified E	4 Nos.	3280 sft	
		E(New)	4 Nos.	2640 sft	

B.F	2 Nos.	1720 sft
B.F	14 Nos.	10640 sft
G.E	10 Nos.	4000 sft
Total		2,54,180 sft

3. DEPARTMENT PROFILE WITH INFRASTRUCTURE & FACILITIES

DEPARTMENT OF ARCHITECTURE

1. About the Department:

The Department of Architecture was established in the year 2013 in VSSUT, Burla. Presently, the department is offering a five-year undergraduate B. Arch course with an emphasis on professional training. Its teaching program covers the broad spectrum of understanding, designing and constructing human habitat and environment. The course opens up opportunities for advanced studies and professional career in designing, planning and managing of built environment and extends to new frontiers of allied disciplines.

The department has the unique advantage of developing within a reputed Technical University and connecting with the oldest and highly experienced multi-disciplinary faculty of Odisha. It also has the distinction of being located in the culturally and environmentally rich region of Odisha.

The department is committed to ensure that the students are nurtured in an environment where there is unhindered 'accessibility' to knowledge resources and 'sustainability' of social and cultural values. The department is keen to imbibe the spirit of innovation, environmental sensitivity and creativity among the students in its endeavor for academic and professional excellence. Within the stringent academic environment there is abundant opportunity of co-curricular and explorative activities, where team spirit, leadership qualities, management skills and tech-proficiency are developed.

There is good opportunity to get exposure of up-to-date technological advancement, and knowledge of emerging research fields through the international conferences and symposiums regularly organised by the University. The University has state-of-art facilities for students to explore allied technical fields. By harnessing the available opportunities and potentiality the Department is striving to mark its footprint by emerging as a prominent centre of Architecture education in India.

2. Faculty details:

	Name	Qualification	Specialization
1.	Dr. Bharati Mohapatra (H.O.D)	B. Arch (CET), M.Arch (Jadavpur University),	Urban Design and Planning
		Ph.D (SAP, Anna University)	
2.	Dr. Indrani Chakraborty	B.Arch., (B.E. College) (DU), Master of City Planning, Architecture and Regional Planning, (IIT, Kharagpur), Ph.D., (IIT, Kharagpur)	Environment Design and Planning, Green Building

ASSISTANT PROFESSORS

3. Mr. Amit Chatterjee B. Arch (University of Architecture Mysore), Conservation,

M. Arch (D. Y. Patil Sustainable

College of Engg. And Architecture, Green

Tech.) Building

Infrastructure, and Theory of Design.

4. Mr. Shaswat Sekhar B. Arch (NIT Raipur) History of

Sarangi Architecture, Vernacular

Architecture, Theory

of Architecture

3. Courses Offered:

B. Arch Degree in Architecture.

4. Laboratory Details:

This department has been established recently. The following laboratories are in the process of establishment.

Sl.	Name of the	Farinmenta
No	Laboratory	Equipments
		Drafting Tools
		Miscelleneous
1	Architectural Design Studio	Movable Display Panels
	Architectural Design Studio	Fixed Display Panels
		Overhead Projector and projector screen
		Laser Light pointers
		Cutting/Model Making
		Drafting Tools
2.	Model Making Studio	Miscelleneous
		Display Corner
		Storage and Workshop Area
		Computer system
3.	Seminar cum Display Room	Furnished Lab furniture
		Storage cabinets

		Overhead Projector and projector screen
		Laser Light pointers
		Movable Display Panels
		Fixed Display Panels
4. CAD L		Adequate no. of Computers
	CAD Lab	Furnished Lab furniture
		Overhead Projector and Projector Screen
		Laser Light pointers

5. Other information of the Department:

Department of Architecture is a milestone in the history of this University. The Department is proud to have creative budding Architects of the future having run four years in the arena of Architectural education in the state. This department believe in creating a work culture having a continuous and never ending team spirit. The department has organized several industry interaction lectures and design workshops.

The Benchmark in quality teaching and academic discipline is the hallmark of the department. Our students have been highly acclaimed in receiving accolades from the Indian Institute of Architects, Odisha Chapter who were the organizers of the 8th Design Carnival at Bhubaneswar. Apart from these the students are also participating in various state and national level events like techfest, ZoNASA etc. The students of the Department are highly appreciated by the university authorities during the Samavesh 2015 by organising Creative Extra Vaganza. Outstanding display by the students of Architecture was also showcased through Archiz Fiesta Event and open day exhibition during Diamond Jubilee. The department has undertaken Architectural consultancy work for Government Project.

The overall growth of the department in several fronts is possible due to combined efforts of highly qualified faculty and enthusiastic students. The department is very proud and privileged to have the faculty, staff and students who aspire to fulfil the dreams of this department to become a centre of excellence in the fields of innovation and creativity.

DEPARTMENT OF CHEMICAL ENGINEERING

1. About the Department:

The Department of Chemical Engineering, Veer Surendra Sai University of Technology is setting its footprint in 2014 with 4-year B.Tech. programme to inculcate students with a strong fundamental knowledge in the field of chemical Engineering and to meet the challenges of rapidly changing technological environment. The branch of Chemical Engineering deals with the chemical processes for manufacturing of different products, designing of related equipments. The Department to impart quality education for the students in all areas especially in the upcoming areas such as Nanotechnology, bio-medical engineering, bio-molecular engineering, environmental engineering, biochemical engineering, process control, pharmaceutical processing etc. The department will start M.Tech. courses in emerging areas very soon.

Vision

To become a nationally and internationally acclaimed department of higher studies to prepare students to meet new challenges faced by chemical and related industries through green technologies.

Mission

- I. To impart strong fundamental knowledge to the students to face the new world in a rapidly changing technological environment.
- II. To carry out interdisciplinary research so as to address the needs of chemical engineering in particular and society in general.
- III. To develop leadership qualities in the students to solve chemical engineering problems keeping in mind the safety and environmental concerns.

2. Faculty details:

	Name	Qualification	Specialization
1.	Dr. Achyut Kumar Panda (H.O.D)	M.Sc., M.Phil, Ph.D (Chemical Engg, NIT Rourkela)	Organic Chemistry & Chemical reaction engg.
AS	SISTANT PROFESSORS		
2.	Ms. Nivedita Patel	BE (Berhampur Univ.), M. Tech. (BIT. Mesra)	Fuels and Combustion.

			Thermoenemear
			conversion of
			WEO to liquid
			fuel
3.	Dr. Krushna Prasad Shadangi	Ph.D., (IIT, Guwahati)	Biofuel, catalysis,
		M.Tech. (NIT Rourkela)	Kinetics, waste
		B. Tech. (BPUT)	water treatment
4.	Mr. Amit Kumar Behera	B. Tech, (NIT Warangal),	Waste water
		M. Tech, (IIT,	treatment
		Guwahati)	techniques
5.	Mr. Veda Prakash	M. Tech, (IIT, Roorkee)	CAPPD
6.	Mr. Anil Kumar Murmu	B.Tech (NIT Warangal),	Mineral
		M.Tech(IIT Kharagpur)	Processing
7.	Dr. Lipika Parida	M.Tech (IIT,BHU),	Biomechanics of
	1	Ph.D (IIT,Kharagpur)	C. elegans,
		1 (111,12	Rheology, Soft-
			Lithography
			Simulation of
			Reactions

Thermochemical

3. Courses offered:

- B. Tech. in Chemical Engineering
- Ph.D. in Chemical Engineering

4. Laboratory details

The list of equipments for the following labs are as follows.

1. Heat Transfer Lab.

- Heat Transfer Through Composite Wall
- Thermal Conductivity of Liquids
- Parallel Flow/Counter Flow Heat Exchanger(shell and Tube, Double pipe)
- Dropwise/Flimwise Condensation Unit
- Stefan Boltzmann Apparatus
- Heat Transfer from a Pinfin
- Heat Transfer through Natural Convection

2. Mass Transfer Lab.

- Vapour in Air Diffusion
- Vapour Liquid Equilibrium(Computerized)
- Humidification and De-Humidification
- Simple distillation setup
- Wetted wall column
- Sieve plate Distillation Apparatus

3. Chemical Engineering Thermodynamics Lab.

- Air Conditioning Test Rig
- Water to Water Heat Pump Test Rig
- Separating & throttling calorimeter
- 4. Chemical Reaction Engineering Lab.
- Isothermal Batch Reactor
- Continuous Stirrer Tank Reactor(CSTR)

- CSTR in series Cascade CSTR
- Isothermal Plug flow Tubular reactor coiled tube type
- Straight Tube type Plug Flow Reactor
- Mass Transfer with and without chemical reaction
- 5. Fluid Dynamics Lab.
- Discharge through venture meter and orifice meter
- 6. Fuel and Combustion Lab.
- Conradson apparatus
- Smoke Point Apparatus
- Pour Point Apparatus
- Muffle furnace
- Incubator Digital
- Distillation Apparatus
- Pensky Martens Apparatus
- Engler Viscometer
- Bomb Calorimeter (Manual)
- Bomb Calorimeter (Automatic)
- Hot Air Oven

7. Material Handling Lab.

- Standard Test sieves
- Cyclone Separator
- Wilfley Table
- Jaw crusher
- Roll crusher
- Magnetic Separator
- Plate and Frame Filter
- Forth flotation cell

8. Process Control and Instrumentation Lab.

- Control Valve characteristics Apparatus
- Flow Process Control Trainer System
- 9. Computer Aided design Lab.
- Chem.Cad. Design

10. Process Technology Lab.

• UV-Visible spectrophotometer

5. Details of research area of faculty members:

Sl. No.	Name of the faculty	Research area
1.	Ms. Nivedita Patel	Fuel & Combustions, thermochemical conversion of NEO to Liquid fuel techniques
2.	Mr. Amit Kumar Behera	Waste Water Treatments
3.	Mr. Veda Prakash	Process Design
4.	Dr. Krushna Prasad Shadangi	Bio-diesel, Thermo-chemical Conversion of biomass to liquid fuel, Hydro-deoxygenation of oil, Liquid-liquid extraction, Catalyst

		preparation and characterization, waste water treatment.
5.	Mr. Anil Kumar Murmu	Mineral Processing
6.		Biomechanics of C. elegans, Rheology, Soft-Lithography, simul at of reactors.

6. Sponsored Research Projects (On going): Nil

7. Consultancy:

The consultancy offered by the department include: (i) Testing of all the properties of solid and liquid fuel, (ii) Characterisation and treatment of waste water, (iii) Design of equipment including reactor, distillation column, absorption column etc., (iv) Modelling of chemical process, (v) Energy optimisation using pinch technology.

DEPARTMENT OF CHEMISTRY

1. About the Department:

The Department of Chemistry started with the establishment of University College of Engineering (UCE) in 1956 (presently, Veer Surendra Sai University of Technology (VSSUT) (UGC Recognized Unitary Technical University Established by Government of Odisha in 2009). The department introduces the basic fundamentals of chemistry to the students at B.Tech. level. The department offers two year Master of Science (M.Sc.) in Chemistry five year Integrated M.Sc. (Int. M.Sc.) in Chemistry, Master of Philosophy (M.Phil.) in Chemistry, Doctor of Philosophy (Ph.D.) in Chemistry. These courses have been designed to generate researching for higher learning and solve the imidiate problem of industries in and around Sambalpur as well as in the state and country. It includes advanced studies on Biomaterials, Nanomaterials, Nanotechnology, Surface Technology, Material Science, Organic Chemistry, Inorganic and Physical Chemistry, Organic synthesis, medicinal chemistry, pericyclue, Chemistry of Materials, Ferrous and Non-Ferrous Materials, Industrial Processes, Environmental Chemistry, Polymer Chemistry, besides the General Chemistry courses. The sessional and practical works consisting of problems related to industrial and applied chemistry are also incorporated in the syllabus for strengthening knowledge of the students. Courses have been prepared according to UGC, NET, and GATE guidelines.

Faculty Details:

	Name	Qualification	Specialization
<u>PROFESSORS</u>			
1.	Prof. Sarat Kumar Swain	M.Sc., M.Phil., Ph.D. (Utkal University) Post-Doc (USA)	Organic Chemistry, Polymer Chemistry, Nanotechnology, Materials Science
2.	Prof. Pravin Kumar Kar	M.Phil Ph.D (Delhi University)	Industrial Chemistry
3.	Prof. Rahas Bihari Panda	M.Sc., MPhil., Ph.D (SU)	Environmental Chemistry/Organic Chemistry
4.	Prof. Sukalyan Dash	M.Sc., M.Phil., Ph.D. (Sambalpur University)	Organic Chemistry, Surface Chemistry,

A G(Organized Assemblies
5.	SOCIATE PROFESSORS Dr. Priyaranjan Mohapatra (HOD)	M.Sc (Ravenshaw) M.Phil. (Ravenshaw) Ph.D (Utkal University) Post-doc, (Chonnam National University, South Korea)	Inorganic and Industral Chemistry
6.	Dr. Trinath Biswal	M.Phil, Ph.D (Utkal)	Organic and Industrial Chemistry
7.	Dr. Achyut Kumar Panda ASSISTANT	M.Sc., M.Phil, Ph.D (NIT Rourkela)	Organic Chemistry
	PROFESSORS		
8.	Dr. Ramakrishna D S	M.Sc (University of Hyderabad), Ph.D (Indian Institute of Chemical Technology)	Organic Chemistry / Synthesis
9.	Dr. Monalisa Mohapatra	M.Sc. (Utkal University) Ph. D. (IIT Madras)	Physical Chemistry

M.Sc. (Utkal University)

Ph.D. (IIT, Kharagpur)

Ph. D. (IIT Guwahati)

M.Sc. (Utkal University)

M.Tech. (CIPET),

Reaction

Polymer

Engineering

Technology

Chemistry)

Supramolecular

Chemistry (Inorganic

Kinetics,

Science,

&

3. Courses Offered:

Following courses are offered in the department:

10. Dr. Aruna Kumar Barick

11. Dr. Bigyan Ranjan Jali

Name of Programme	Year of Commencement
M.Sc. (Chemistry)	2010-11
Int.M.Sc. (Chemistry)	2013-14
M.Phil. (Chemistry)	2014-15
Ph.D. (Chemistry)	2013-14

4. Laboratory Facilities:

Sl. No.	Name of Laboratory	Major Equipments	Research Facilities
1.	UG/PG Laboratories	Potentiometer, Conductometer pH meter, Oil Testing Apparatus, Bomb caloneimeter	
2.	Instrumentation Lab.	Colorimeter, Refractometer, FTIR, Microwave synthesis, Electronmicroscope flarimeter, Atronic Absorb specific copy, DSC, DLS	nhotomatar
3.	Environmental Lab.	Turbidity meter sound pressure measuring instruments, BOD incubator, COD reflaxes fluorimes Ionselective electrode.	



Research Lab

5. Research Activities:

The details of research area of faculty members, award received and any other distinctions as follow:

Sl.	Name of the Faculty	Research Area	Awards/Distinctions etc.
1.	Dr. S. K. Swain	Materials Science; PolymerScience;Nanotechnology; Polymer composites andnanocomposites; Synthesis and Application of Nanomaterials; Bio-composites	Samanta Chandra Sekhar Award 2015, by Odisha Bigyan Academy department of Science and Techology, Govt. of Odisha for outstanding research. 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 (<i>BRNS</i>), 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 Oral Presentation atRavenshaw College, Cuttack
		Supramolecular chemistry	
2.	Dr. P. K. Kar	Corrosion Science, environmental science	
3.	Dr. R. B. Panda	Environmental Chemistry, Air, Water and Soil Analysis, Utilization of Fly Ash, Hazards waste management, Environmental Impact, Assessment and Environmental plan, Biomedical waste assessment and management, Industrial pollution assessment and management	National Environment Award - 1994(Subakaran Sarawagi EnvironmentAward) for the utstanding contributionto the Nation in the conservation of environment in mining sectors.

4.	Dr. S. Dash	Physical Organic Chemistry; Bio- fuel; Adsorption study of NovelMaterials	Prof. R. C. Tripathy Young ScientistAward – 2007 Prof. D. N. Pattnayak Award for BestPaper by Odisha Chemical Society- 2008
5.	Dr. T. Biswal	Polymer Composites and Nanocomposites	
6.	Dr. P. Mohapatra	Synthesis and Application of Nanomaterials (Graphene, Quantum Dots, Nanoparticles, etc.)	Brain Korea 21st Century (BK 21) Post-doctoral Fellowship, South Korea
7.	Dr. A. K. Panda	Conversion of Plastic Waste toLiquid Fuel	
8.	Dr. Ramakrishna D. S.	Organic Synthesis	
9.	Dr. M. Mohapatra	Physical Photochemistry; Biophysical Chemistry; Fluorescence Spectroscopy	Prof. R. K. Nanda Memorial Award (Best Oral Presentation) in 22ndAnnual 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
10.	Dr. A. K. Barick	Preparation & Characterization, of Polymer Blend, Composite, and Nanocomposites;	Hanyang Brain Post-doctoral Fellowship— 2012-13, Hanyang University, South Korea
11.	Dr. B.R. Jali	Supramolecular Chemistry Inorsanic Chemistry	

6. Consultancy:

Testing of materials like cement, oil, water, lubricants, etc. are carried out in the laboratories of the department besides, the department gives suggestions and scientific deliberations on drinking water quality and their purification methods.

7. Continuing Education Programme:

The department had conducted short term training programme on environmental chemistry and related areas.

8. Research Projects:

Following sponsored research projects are sanctioned by funding agencies in the Department:

- 1. Prof. P. K. Kar: Corrosion Inhibition Studies of Metal Chelates (2006-08); AICTE, Govt. of India.
- 2. Dr. S. Dash: Synthesis, Characterization, and Photochemical studies some Novel Polymethine Cyanine Dyes (2007-09); AICTE, Govt. of India.
- 3. Prof. S. K. Swain: Acoustical Investigation of Some Pharmaceutical Proteins (2014-17); Department of Biotechnology, Govt. of Odisha.
- 4. Prof. S. K. Swain/Dr. P. Mohapatra: Preparation and Characterization of Graphene Nanocomposites by Reinforcement of Transition Metal based Quantum Dots (2015-18); EMR-II, CSIR, Govt. of India.
- 5. Dr. Ramakrishna D. S.: Total Synthesis of Biologically Active Carbazole Alkaloids :Glybomines A-C and their analogues (2014-17); UGC-FRP Scheme, Govt. of India.
- 6. Dr. A. K. Barick: Development of Nanoparticle/Nanotube Hybrid Nanofiller based Thermoplastic Polyurethane/Polyaniline Blend Nanocomposites for Multi-functional Applications (2015-18); UGC-FRPScheme, Govt. of India.
- 7. Dr. M. M. Mohapatra, Fundamental Investigation of biopolymers- biosurfactats interaction towards understanding their physio clinical behavior using fluorescent drug molecules" (2016-19); DST-SERB, Govt. of India.
- 8. Dr. B.R. Jali, Development of Higher photoluminscent Nanosized Lantharide orsanic frame works for biological application. UGC-FRPS Scheme Govt. of India.

9. Publications:

Following is the categorical list of number of papers published by faculties of the department in last five years:

Research Papers Published in Peer Reviewed International/National Journals: 310 Nos.
Book published by Springer and Elecuvier publisher - 02
Book Chapters Published in Peer Reviewed Edited Books:17 Nos.
Research Papers Presented/Published in International/National Conference Proceedings: 120 Nos.
Patent published: 01 (USA), 0I (S. Korea), 02 (Indian).

1. About the Department:

Civil Engineering plays a vital role in the growth and development of any nation. Infrastructures like roads, buildings, railways, airports, dams, drainage & irrigation canal system, water supply network need the knowledge and services of Civil Engineers. It comprises of many specialisations like Structural engineering, Geotechnical Engineering, Hydraulics and Water Resources Engineering, Environmental Engineering, Transportation Engineering and Geo-informatics Engineering. Recognizing the rapid, extensive and emerging development in civil engineering, the degree programme includes computer aided analysis & design and remote sensing besides an integrated and systematic foundation in physical engineering sciences like solid, fluid and soil mechanics, materials, graphics and surveying. The sequential provision of subjects develop the engineering mythology and practice as applied to planning, design and control of buildings, bridges, hydraulic structures environmental system, transportation system and others. The programme instills in the students, a professional approach through project work and practical training during vacations. Department encompasses well-trained faculties in all major specialisations like Structural engineering, Geotechnical Engineering, Hydraulics & Water Resources Engineering, Environmental Engineering and Transportation Engineering. Since 2012 regular masters and Ph.D. courses in all major specialisations and from 2015 dual degree program in Structural Engineering have been initiated.

2. Faculty Details:

	<u>Name</u>	Qualification	Specialization
PR(OFESSORS		
1.	Prof. Amar Nath Nayak	B. Sc. (Engg.), (Utkal Univ.), M. Tech (IIT, Kharagpur), Ph. D (IIT, Kharagpur)	Structural Engineering
2.	Prof. Prakash Chandra Swain	B.Sc. (Engg.) (CET, BBSR), M.E. (UCE, BURLA), Ph. D (NIT, Warangal)	Water Resources Engineering, Application of Artificial Intelligence Techniques to Water Resources Management
3.	Prof. Pradip Kumar Pradhan	B.Sc (Engg.) (SU), M.Tech(SU), PhD (IIT Kharagpur)	
4.`	Prof. Pradip Kumar Das (On Lien)	B.Sc. (Engg.) (NIT, Rourkela), M.Sc. (Engg.), (UCE, Burla), MBA (HRM), P.G. Dip (Operation Management),	•

P.G. Dip. (Human Resources Engg), Ph. D : IIT, Kanpur

5.	Prof. Sudhanshu Sekhar Das	B.Sc Engg., (OUAT), M.T.R.P. (Indian Institute of Engineering Science and Technology Shibpur, Ph.D	Transportation Engineering
6.	Prof. Sanjaya Kumar Patro	(IIT Kharagpur) PhD (IIT Bombay)	Structural Engineering
ASS	SOCIATE PROFESSORS		
7.	Dr. Chitta Ranjan Mohanty (On Lien)	B.Sc (Engg.) (UCE Burla), M Tech (IIT Kharagpur), Ph.D (IIT Kharagpur)	Environmental Engineering
8.	Dr. Ajaya Kumar Nayak	BTech (NIT, RKL), ME(IISc, Bangalore), Ph.D. (University of Southampton, UK)	Structural Engineering
9.	Dr. Rakesh Roshan Dash (H.O.D.)	B.E. (Utkal Univ.) M. Tech. (IIT Delhi) Ph.D. (IIT Roorkee)	Environmental Science and Engineering
10.	Dr. Ramakanta Panigrahi	B.Sc. (Engg.) (UCE Burla), M. Tech (IIT Delhi), PhD (IIT Delhi)	Structural Engineering
11.	Dr. Debabrata Giri	B.Tech (CET, BBSR), M.Tech (NIT, RKL), Ph.D (IIT, KGP)	Geotechnical Engineering
12.	Dr. Saubhagya Kumar Panigrahi	B. Tech. (Utkal University), M. Tech. (NIT Rourkela), Ph.D. (IIT Kharagpur)	Structural Engineering
13.	Dr. Anil Kumar Kar	B.Sc. (Engg) (S.U), M.Tech (IIT Roorkee), Ph.D (IIT Roorkee)	Water Resources Engineering
ASS	SISTANT PROFESSORS	,	
14.	Ms. Sudhira Rath	B.Sc. (Engg) (N.I.T, Rourkela), M.E (S.U)	Transportation Engineering
15.	Ms. Jayanti Munda	B.Tech (UCE, Burla), M.Tech (NIT Warangal)	Geotechnical Engineering
16.	Ms. Leena Sinha	B.Tech (UCE Burla),	Structural
17.	Dr. Parsuram Nayak	M.Tech(NIT Rourkela) B-Tech (UCE Burla), M. Tech (NIT Rourkela), PhD (II TKGP)	Engineering Structural Engineering
18.	Dr. Bharadwaj Nanda	B. Tech (CET Bhubaneswar), M. Tech (NIT Rourkela),	Structural Engineering

		Ph.D	(IIT Kharagpu	r)	
19.	Mr. Rajiv Lochan Sahu		Tech. ersity,Vellore), (NIT Rourkela)	M.	Geotechnical Engineering
20.	Dr. Janhabi Meher	M.Tee	ch (UCE BURI ch (IIT Kanpur) (NIT Rourkela)),	Water Resource Engineering

		Tech (NIT Rourkela)	
20.	Dr. Janhabi Meher	B.Tech (UCE BURLA), M.Tech (IIT Kanpur), Ph.D (NIT Rourkela)	Water Resources Engineering
21.	Ms. Laxmipriya Mohanty	M.Tech	Water Resources Engineering
22.	Ms. Rupashree Ragini Sahoo	M. Tech.(NIT Rourkela)	Geotechnical Engineering
23.	Mr. Akash Kumar Naik	B.Tech (VSSUT, Burla) M. Tech (IIT, Kharagpur)	Transportation Engineering
24.	Ms. Sanghamitra Jena	B. Tech., M. Tech (CET, BBSR)	Structural Engineering
25.	Ms. Jhunarani Ojha	B. Tech., M. Tech (NIT, Rourkela)	Transportation Engineering
26.	Dr. Ramkrishna Dandapat	B.E. (Bengal Engineering and Science University, Shibpur) M. Tech. (IIT Kharagpur), Ph.D. (IIT Kharagpur)	Structural Engineering
27.	Mr. Pratap Kumar Pradhan	B.Tech (VSSUT, Burla), M.Tech (IIT Guwahati)	Transportation Engineering
28.	Mr. Ajaya Kumar Das	B.Tech (C.E.T Bhubaneswar), M.Tech(IIT Delhi)	Structural Engineering
29.	Ms. Kajal Swain	B.Tech, ITER (SOA University), Bhubaneswar, M.Tech. NIT, Rourkela	Geotechnical Engineering
30.	Ms. Kirtisuta Bhoi	B.Tech (VSSUT, Burla), M.Tech(VSSUT, Burla)	Water Resources Engineering
31.	Mr. Sushant Kumar Sial	B.Tech (VSSUT, Burla), M.Tech (IIT Kharagpur)	Transportation Engineering
32.	Ms. Abhayaa Nayak	B.Tech (IACR, Rayagada), M.Tech (V.S.S.U.T Burla)	Water Resource Engineering
33.	Dr. Asim Kumar Mishra	B.E. (UCE Burla) M.Tech. (NIT Rourkela),	Experimental modal testing,
	(TEQIP Sponsored)	Ph.D (IIT Kharagpur)	model updating, structural dynamics

3. Courses Offered:

B.Tech in Civil Engineering.

M.Tech. in Civil Engineering with specialization in

- > Structural Engineering
- > Transportation Engineering
- ➤ Water Resources Engineering
- ➤ Geo-Technical Engineering
- > Environmental Science & Engineering

Dual Degree: B. Tech in Civil Engineering and M. Tech in Civil Engineering with specialization in Structural Engineering.

Ph.D degree in all major areas of Civil Engineering.

4. Laboratory Details:

Sl.	Name of the		
No	Laboratory	Major Equipments	Research Facilities
1	Structural Engineering	ReciprocalTheorem,Two hinged	compositeshells, Retrofitting ofconcrete structures with FRP compositesUtilization of SolidWaste in ConcretePreparation,Behaviourof Concrete withPartial Replacement of
2	Concrete	Concrete Mixer, Table Vibrator, Humidity chamber, permeability Test apparatus of concrete, Digital schmitic	Study onSelf Compacting Concrete, EarthquakeAnalysis of Dam, Optimization, ComputerApplication in Civil Engineering, RecycledAggregate Concrete, Fly-Ash
3	Geotechnical Engineering	Unit)Three gang consolidometor Automatic cumpactor	industrialwastes, Soil Stabilization
4	Transportation Engineering	Stability Equipment, Los-Angel	Transportat OnPlanning, Pavement MaterialEngineering, Traffic Safety.

_	Envisores at a	TIV VICCo of the place of the p
5	Environmenta	UV-VISSpectrophotometer, Water and waste water quality
	1	FlamePhotometer,OrionFloride iron analysis, Waste Utilization, Raw water
	r · ·	plus meter, BODincubator, treatm ent, Waste watertreatment,
	Engineering	Conductivitymeter, Cooling Solid
		incubatorm, sound level meter, laminar wastemanagement, Industrial Wastema
		airflow cabinet. nagement, Environmental impact assess
		ment,Riverwaterqualitymodeling,
		Airqualitym odeling, Groundwater
		quality modeling, Noise modeling.
		quanty moderniz, reoise moderniz.
6	Fluid Flow	Micro ADV, PVC pipe 1-D and 2-D velocity measurement
		testingequipment, Flow tracker, using Flow Tracker, 3-D
	T 1 .	Openchannelflumes (4Nos.)Pipe velocity measurement using Micro
		frictionapparatus, ADV, Velocity profile and shear stress
		Reynold's Apparatus, Hydrology profile study in openchannels,
		system, Depth Echo sounder, Hydraulic jump and spillwayprofile
		Automatic water level recorder, Impactstudy, laminar, transition
		of Jets Apparatus, Automatic weather and turbulent flow zones study.
		station, Hydraulic Bench with
		accessories, pitot Tubes, Curent
		Meters, Rain Gauges, Differential
		Global positioning system, GIS master
		lab kit.
7	Surveying	Electronic Total Station, Micro-optic Measurement of distances, horizontal
	Laboratory	Theodolite, AutoLevel, Venire and vertical angles and elevations in
		Theodolite topographic and geodeticworks,
		plotting of contours, assessment of area
		of water bodies, plots etc.





Structural Engg. Lab.

Concrete Lab.





Sl. No.	Name of the Faculty members	Research Area	Awards/ Distinction etc
1	Dr. Amar NathNayak	sustainable correlate with Industrial wastes. Advanced Composites/Fibre Reinforced, Polymers, Plate and Shell Structures, Retrofitting of Concrete	K. F. Antia National Award for the best paper published in the Journal of Institution of Engineers (India) 1999-2000. Sayed Mumtaz Ali Memorial Award during 54th 55th Annual technical Session 2013 & 2014 respectively for best paper published in the Technical Annual of Institition of Engineers (India) Odisha State Centre, Bhubaneswar. Er. PC Choudhury award for best paper published in the Technical Annual Journal 2018 of Institution of Engieneers (India), Odisha State Centre, Bhubaneswar. Govinda Gupta memorial award for the outstanding contribution in the field of R&D activity for 2018 by Institution of Engineers (India), Odisha State Centre, Bubaneswar.
2	Dr .PrakashChandra Swain	Management, Application of Artificial Intelligence Tech niques to Water Resources Engg. Surface &	Er. Banabihari Mohanty Memorial Award for outstanding research paper in the field of Irrigation Engineering by the Institution of Engineers in 1999 & 2002. Awarded gold medal for contribution to the field of Electrical & Electronics Engineering by Orissa Engineering Congress (2002). Damodar Sahoo Memorial Award for Best Research paper (2017) by Institution of Engineers.

3	Dr. PradipKumar	Dynamics of Soil	-
	Pradhan	andFoundations,	
	Fraunan	MachineFoundations,	
		GroundImprovement	
		andReinforced soil.	
4	Dr PradipKumar Das	Computational	Gold Medal in Annual Session of
	(On Lion)	Hydraulics, Multivariate	Orissa Engineering Congress held on
	(On Lien)	Analysis of Hydrologic	6th February,1993
		System, Fluvial	
		Hydraulics,	
		Contamination Transport	
		modeling for Porous	
		media flow.	
5	Dr. Sudhansu	Transportation	
	Sekhar Das	Planning,Traffic	
•	Sekhar Das	Operations	
		andManagement,PublicTr	
		ansportation	
		SystemTravel Behavior	
		Analysisand Demand	
		Models	
6	Dr.SanjayaKumar	Energy Dissipation	Awarded with Syed Mumtaz Ali
	Patro	Systemsfor Seismic	Memorial Award in four years i.e. 52, 53, 55th 56th 57th Annual Technical
		ResistingDesign;Utilisati	Session of Orissa State Centre, The
		on of Industrial	Institution of Engineers (India)
			Awarded with Er. Arta Bandhu Jena Award In the 54th and 58th patert on
		ConcretePreparation;	"A COMPOSITION FOR PARTIAL
		Nanotechnology –	REPLACEMENT OF ORDINARY PORTLAND CEMENT" patert No.
			303344 dt. 22.11.2018.Annual
		vibration control;Seismic	Technical Session of Orissa State Centre, The Institution of Engineers
		Vulnerability	(India)
			Awarded with Civil Engg. Division
		Assessment	first prize in 57 th Annual session of Odisha Engineering congress.
			Patent on " A composition for partial
			replacement of ordinary Portland
			command" patent No. 303344/22.11.18
7		Structural Engineering	Doctoral Scholarship to carry out Ph.D
	Nayak		Program at University of
			Southampton, UK.
8	Dr. Rakesh	Water Quality	Received French government
		&Treatment,	scholarship (2002) to complete M.
		,	
	Roshan Dash	,	Tech. thesis at INSA de Lyon, France

		River Bank Filtration,	
		Waste Water	
9	Dr. Debabrata	Earth-quakeEngineering,	
	Giri	Soil Dynamics, Dynamic	
		Behaviour of reinforcedSlopes	
10	Dr. Ramakanta	Tensegirty structures	
	Panigrahi	geopolymar concerate	
11	Dr. Parsuram Nayak	Structural dynamics	Earth-quake analysis of structures/

6. Ongoing Sponsored Research Projects:

The department has received grant from the DST / Ministry of HRD / RD / AICTE for the following projects.

Sl. No.	Name of the Project	Sanctioning Authority	Amount in Lakh (Rs.)	Year of sanction
1.	Characterization of light weight concreteusing Ash Cenosphere	DST	13.25	2015-16
2.	Development of a fluoride filter forcommunity uses	DST	12.78	2014-15
3.	Modernization of Environmental laboratory	AICTE	18.04	2013-14
4.	Modernization of Hydraulics Flow Lab	AICTE	10.00	2013-14
5.	Performance study of Flexible pavementsusing Expert System	AICTE	10 .00	
6.	Development of Fuzzy-logic and NeuralNetwork technology for flood mitigation	AICTE	16 .00	
7,	Flood forecasting in river Mahanadi usinghydrological and mathematical modeling	AICTE	10 .00	

		l		
8.	Installation of automatic weather station	AICTE	5.00	
9.	Development of CAD laboratory	AICTE	6.00	
10	Fly Ash Generation & Utilization in CoalBased	SPCB,		2014 -15
	Therm al Power Stations of Odisha(2013-14)"	Odisha		
11 .	Study on Environmental Im pact of Fly ashfrom	SPCB,		2015 -16
	major Thermal Power Plants inOdisha"	Odisha		
12	UK-India collaborative Research Project (UKIERI-III) on FRP shear strengthening of damages concrete		12.53	2018-20
	becomes subjected to fatigue loading.			
13	MODROB for structural Engg. Lab.	AICTE	18.5	2017-19
14	MODROB for advanced concrete Lab.	AICTE	19.0	2017-19

7. Consultancy:

- 1. Non-destructive Testing of Silo foundation at Aditya Aluminium (A unit of Hindalco Industries Ltd.), Sambalpur.
- 2. The department is chosen as State Resource Institute for National Programme on Capacity building of engineers in earthquake risk management (NPCBEERM) by the Ministry of Home Affairs, Govt. of India to provide necessary training to the field engineering regarding earth quake resistant structure.
- 3. The department is the "State Technical Agency appointed by "National Rural Roads Development Agency" NRRDA, Govt. of India, New Delhi, to scrutiny the DRPs for rural roads under PMGSY.
- 4. The department is chosen as consultant for the redesign and checking the adequacy Building of RBI, Bhubaneswar against earthquake.
- 5. Checking of Structural Design and Drawing of B. R. Ambedkar Medical College & Hospital, Raipur.
- 6. Proof checking of structural Design & Drawing and Conducting NDT and Issue of Structural Stability Certificate of Part C Building of CIPET, Bhubaneswar.
- 7. Checking the Design of Elevator of Rairakhol Railway Station of Sambalpur Division of East Coast Railway.
- 8. Checking the Structural Drawing and Adequacy of Self Supporting Towers and Guyed Masts of Mahanadi Coalfield Limited, Burla.
- 9. Survey of Water Surface Area of Power Channel of Hirakud Dam, Burla.

- 10. Geotechnical investigation for coal washery at Talcher, BSNL office building, RBI Bhubaneswar, MCL and various private Organizations.
- 11. Recommendation of design mix for embankment blanketing material and stability analysis of high embankments of Sambalpur-Talcher rail link project.
- 12. Soil Investigation for Works department, Water Recourses Dept., Govt. of Odisha, Indian Railways, BSNL, MCL, SAIL, NTPC, etc and various private Organizations.
- 13. Department has designed a water supply scheme for twenty two villages of Rengali Sasan of Sambalpur district.
- 14. The department has completed a project on fly-ash generation and utilization in the state of Odisha for the Year 2014-15.
- 15. The department is engaged to assess the impact of fly-ash ponds of major thermal power plants in the state of Odisha.
- 16. Proof checking and quality control of buildings for Central Government Employees Welfare and Housing Organisation
- 17. Proof checking of Water tanks, RWSS Division, Bhubaneswar
- 18. Performance study of Pavements under PMGSY
- 19. Proof checking of building, NAC, Boudha
- 20. Hydrological Survey for Ash Pond and Redmud Pond of NALCO, M&R Complex, Damanjodi
- 21. Contour Plotting and Soil Investigation for Proposed Coal Washeries at various project sites of MCL Coal Mines, Odisha
- 22. Project Report (DPR) on "Water Supply to uncovered area of Sambalpur Town" and "Improvement of Sanitation System of Sambalpur Town" under Urban Infrastructure Development Scheme for small and Medium Towns (UIDSSMT) for Sambalpur Municipal Council
- 23. Safety and Stability Analysis of Starter Dykes and Design of Raising of Dykes for Ash Pond, Vedanta Aluminium Limited, Jharsuguraha
- 24. Checking of design and drawing of Town Hall-cum- Auditorium, Binka N.A.C.
- 25. Vetting of design & structural drawing of AGE E&M & AGE B&R, subdivision office & accommodation for security control systems at DMRL
- 26. Vetting of Hydraulic design, structural design and estimates of overhead tanks, and water treatment plant for integrated rural piped water supply schemes of Sambalpur division
- 27. Third party quality assurance check for Hindustan Steel Works Construction Limited
- 28. Assessment of water spread area of power channel of Hirakud system.
- 29. Study of safety and stability of Dyke of Ash Pond, CPP, NALCO, Angul.
- 30. Proof checking of structural drawing and design of OSHB buildings at Bhubaneswar & Angul.

8. Other Information of the Department:

Department generates highest revenue for the institute through various major consultancy projects from Government, Public Sector Undertakings and Private Industries along with normal testing of civil engineering materials. The alumnae of this department presently hold various important positions in the industry, state and central governments, national and international academic and research institutions. Our students have been highly acclaimed by the selection committee of prestigious Companies.

DEPARTMENT OF COMPUTER APPLICATION

1. About the Department:

The Master of Computer Applications (MCA) program was started in 1993 with an intake of 30 and one of the oldest Department of VSSUT, Burla. It is committed to impart quality education in the sub-fields of IT, a field growing in leaps and bounds. The curriculum is so made that the course provides a good theoretical foundation through high-quality teaching complemented by extensive practical training. It is dedicated to the mission of inculcating value-based, socially committed professionalism to the cause of overall development of students and society. This department comprises of six faculty members (out of them Four Faculties with doctorate degrees) and is actively involved in research and in carrying out projects besides teaching. The persistence of the dedicated faculty in maintaining the standards is manifest in the successful placement and in the production of Ph.Ds. To keep in touch with the ever growing technology, the faculty members participate regularly in refresher courses and symposia conducted by various universities and research institutions. The students are provided with ample opportunities to improve their organisational skills and group dynamics. They are motivated to handle seminars and to participate in group discussions. Apart from emphasizing on consistent and good academic performance, the department encourages participation in the co-curricular and extra-curricular activities to bring out the latent talents in its students. To impart the knowledge of reasoning, analytical ability for various competitive examinations the course includes subject as Mathematical Foundation of Computer Science, Discrete Mathematics, Cloud Computing etc. For overall development of student subjects such as Professional Communication in English, Oral and Written Communication and Practical's and Training of Personality Development, Interview Preparation, Group Discussion etc. are also included in curriculum. This overall combination of subjects gives them sound and excellent background for any competitive environment. This also provides them with increase opportunity in Institute Campus Placement. The students are now highly placed in many reputed companies of India as well as abroad. The students are placed in many top level Companies like TCS, Infosys, Accenture, Capgemini etc.

Vision

To create Intellectual capital in the area of Computer Science and Applications through providing quality education to meet ever changing skill requirement of the industry and academia. To establish specialized facilities for development and absorption of Emerging & Time Relevant Technologies to enrich the student's skill set.

Mission

To produce Qualified Post-Graduates who are competent in the areas of Computer Science and Applications and able to meet the challenges of ever changing industry requirements at global and national level. To develop strong theoretical concepts complemented with practical trainings. To inculcate innovative skills, research aptitude, team-work, ethical practices in students so as to meet expectations of the industry as well as society.

Faculty Details:

	Name	Qualification	Specialization
AS	SOCIATE PROFESSORS		
1.	Dr.(Mrs.) Sasmita Kumari Padhy	M.C.A (BPUT), M.Tech(BU), Ph.D (UTKAL)	Soft Computing, Multiprocessor Scheduling
2.	Dr. (Mrs.) Sucheta Panda (H.O.D)	M.C.A (NIT,Rourkela), M.Tech(NIT,Rourkela) Ph.D (NIT,Rourkela)	Image (ColorProcessing ImageSegmentation using MarkovRandomField Models)
AS	SISTANT PROFESSORS		
3.	Mr. Sanjib Kumar Nayak	BE (UTKAL), PGDIT(IITKgp) M.Tech (Tezpur)	Parallel & Distributed systems
4.	Dr. Sasmita Acharya	B.Tech (Utkal University), M.Tech (BPUT) Ph.D. (VSSUT, Bural)	Wireless Sensor Networks
5.	Mrs. Etuari Oram	M.Tech (CSE) (NIT,Rourkela)	Wireless Sensor networks, software Engineering, Data Mining
6.	Dr. Bighnaraj Naik	Ph.D. (VSSUT), M.Tech. (SOAU), B.E. (BPUT)	Machine Learning, Soft Computing, Data Mining

3. Courses offered:

Master in Computer Application (MCA)

Ph. D. In Computer Application

4. Laboratory Details:

7. 1	Laboratory Details.			
	Name of the			
Sl.No.	Laboratory	Major Equipments	Research Facilities	
1	Windows	30	Data Mining, Soft Computing,	
	Laboratory	DELL Optiplex Dual Core	Wireless Networks, Pattern	
		Computer	Recognition, Information	
		Systems, HP Laser Jet M1005	Retrieval, Network Security,	
		Printer, 10 KVA Online Console	Mobile Communication etc.	
		UPS, Wi-Fi Router for Wireless		
		internet activity, 1 GBPS leased line		
		internet facility		
2.	LINUX LAB	3.60GHz	DBMS PROGRAMMING JAVA PROGRAMMING ENTERPRISE WEB-BASED	
		64-bit OS, Windows 8.1 Pro	COMPUTING WITH JAVA SEMINAR	





Windows Lab, MCA

Linux Lab, MCA

5. Details of research area of faculty members :

Sl.No.	Name of the Faculty members	Research Area		
1.	Dr.(Mrs.) Sasmita Kumari Padhy	Soft Computing, Multiprocessor Scheduling		
2.	Dr.(Mrs.) Sucheta Panda	Image Processing, Computer Vision, Soft Computing		
3.	Dr. Bighnaraj Naik	Soft Computing, Data Mining		
4.	Mr Sanjib Ku. Nayak	Wireless Sensor Networks		
5.	Dr. Sasmita Acharya	Parallel & Distributed Systems, Cloud Computing		
6.	Mrs Etuari Oram	Computer Networks		

6. Other information of the Department :

Well equipped Computer Laboratory with facilities for Database, Programming lab, Project lab, Networking lab, Computer Graphics & Multimedia and Linux lab. In Windows laboratory, each student can have hands-on experience in practical applications that enhances the knowledge imparted in the theory classes. The course content has been well mapped with future career prospects of the MCA students.

Department has more than 50 text books for immediate reference by the students and faculty members.Ph.D in Computer Application has started from the year 2016.

The Department has a student's society in which students and faculties are the members. The society is mainly meant to build up a good academic atmosphere by organizing lectures/ seminars/workshops by outside speakers and also by the members of the society.

From 2013, a Departmental Annual Technical Symposium 'ADHRIT', of the MCA Student Society has been started, where the students have proved their talent in different technical, cultural, social events. Alumni's have also extended their helping hand to make the event successful since its inception.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



1. About the Department:

The Department of Computer Science and Engineering was established in 1994. It has produced high quality technocrats for the last few decades to cater to the needs of hardware and software industry, R&D organizations, and academic Institutions. The syllabi of the Department are updated with many advanced courses to enable students to keep themselves at par with the cutting edge-technology. The teaching in the department emphasizes on fundamental principles, development of creative thinking and the analytical ability to solve real life problems. The Department also encourages its students to engage in extra-curricular and co-curricular activities, personality development, developing team spirit, and organizational skills.

The department has a library with good number of books, journals and magazines to help the students to upgrade their outlook in various areas of Computer Science. The department organizes National Technical Seminars, Exhibitions and Industry-Institute Interaction Programme every year.B. Tech CSE, and M. Tech CSE programme are accrediated by "NBA".

Mission

To produce best quality computer science professionals and researchers by providing state-of-the art training, hands on experience and healthy research environment.

To collaborate with industry and academia around the globe for achieving quality technical education and excellence in research through active participation of all the stakeholders.

To promote academic growth by establishing Centers of Excellence and offering inter disciplinary postgraduate and doctoral programs.

To establish and maintain an effective operational environment and deliver quality, prompt, cost effective and reliable technological services to the society aswell as compliment the local and global economic goals.

Vision

To be a recognized leader by imparting quality technical education and thereby facilitating the extensive research environment, equipping students with latest skills in the field of technology supplemented with practical orientation to face challenges in the fast morphing modern computing industry and academia for the betterment of the society

Faculty Details:

2.

	Name	Qualification	Specialization
PRO	<u>OFESSORS</u>		
1.	Dr. Chita RanjanTripathy (On Lien)	B.Sc. Engg.(UCE), M.Tech, Ph.D(IIT, Kharagpur)	Parallel Processing
2.	Dr. Amiya Kumar Rath (On Lien)	B.E, (Marathwada Univ.), M.Tech (Utkal), Ph. D. (Utkal) MBA, (Systems Mgmt)	Computer Architecture, Embedded system, Data Structure
ASS	SOCIATE PROFESSORS		
3.	Dr. Rakesh Mohanty	B.E. (UCE Burla), M.Tech. (JNU, Newdelhi), Ph.D (IIT Madras)	Online Algorithms, Self Organizing Data Structures
4.	Dr. Manas Ranjan Kabat	B.E. (Utkal University), M.E. (BEC, Calcutta), Ph.D (Sambalpur Univ.)	Internet and Quality of Service, Computer algorithms, Real- Time Systems Artificial Intelligence, Wireless Sensor Network
5.	Dr. Suvasini Panigrahi (H.O.D)	B.Tech. (Utkal Univ.), M. Tech. (Utkal Univ.) Ph.D., (IIT Kharagpur)	Database and Information Security
ASS	SISTANT PROFESSORS		
6.	Mr. Satya Prakash Sahoo	M. Tech (CSE)	Computer Networks, Data Structure, Soft Computing, Database Engineering
7.	Dr. Sumitra Kisan	B.Tech (UCE,Burla), M. Tech (ISM,Dhanbad),	Cryptography & Network security,

		PhD. (Utkal Univ.)	Image Processing &Fractal study
8.	Dr. Santosh Kumar Majhi	B.Tech, (VSSUT, Burla) M.E, (Utkal Univ.) Ph.D (SSU, Cuttack) MBA (Operation Mgmt)	Decision Science, Information Systems, Cloud Computing, Network & Internet Security, Database Applications
9.	Ms. Alina Mishra	B. Tech. (BPUT), M.Tech (NIT Rourkela)	Software Engineering, Program Slicing, Soft computing
10.	Mrs. Santi Behera	B. Tech. (CSE, BPUT), M. Tech. (NIT Rourkela)	Wireless sensor Network, Multimedia System, Mobile Computing
11.	Ms. Alina Dash	B. Tech (VSSUT,Burla), M. Tech(NOU, Baripada)	Computer Networking

3. Courses Offered:

- (a) B.Tech.in Computer Science & Engineering
- (b) M.Tech. in specialization Computer Science & Engg.
- (c) Ph.D. in major areas of Computer Science & Engg.

4. Laboratory Details:

Sl. No.	Name of the Lab	Major Equipment	Research Facilities
1.	System Programming Laboratory	38 Nos. HP Intel Core <u>i7-6700@3.4</u> GHz, Intel Q150, Ubuntu HP Intel Core i3 4130, Intel H8 Chipset, Preloaded Linux S/W GCC Lex, Yacc, Java, ScilLab, Octave	Data Structure, Design and Analysis of Algorithms, Operatinv Systems, Adv. Comp., Java
2.	Computing Lab 1	40 Nos. HP Intel Core i7 @ 4.2 GHz, Ubuntu HP Intel Core i7-6700 @ 3.4 GHz, Ubuntu HP Intel Core i7 @ 3.4 GHz, Windows 8.0 Professional preloaded S/W	Complier Design, Database Systems, IWP Software Engineering, Cloud Computing, Computer Networks

3.	Computer Organization Laboratory	-QualNet -Aneka Cloud -TurboC -Dev C++ 18 No. DELL Intel Core i7-4790 @ 3.6 GHz, Windows 8.1 Preloaded RAM Trainer Kit (15 Nos.) ALU Trainer Kit (15 Nos.) Computer and SMPS Trainer Kit (02 Nos.) Hard Disk Controler Kit (15 Nos.) Printer and Scanner Kit (02 Nos.) RTC and Temp. Measuring Trainer Kit (15 Nos.) 8085 Microprocessor Trainer Kit (15 Nos.) S/W	Computer Organization Microprocessor, Ditigal Electronics
		(15 Nos.)	
4.	Research Laboratory	14 No. DELL Intel Core i7-3770, 3.4 GHz, Linux preloaded 01 No. HP Server Model ML-350 (01 no.) Dual Intel Xeon Processor E5- 2609@1.9GHz, 6 Core15MB/85W Processor	Dedicated Lab for Research Scholars





Computer Hardware Lab.

Networking Lab.

5. Details of Research area of faculty member and awards /distinctions

Sl.	Name of the Faculty		
No.	Members	Research Area	Awards/Distinctions etc.
1.	Dr. Chita Ranjan Tripathy (On Lien)	Parallel Processing	Sir Thomas Ward Memorial GoldMedal from Institute of Engineers, Nagpur in 1998. Certificate of merit for Best research paper award-2003& 2004 from Institute of Engineers, Kolkata. Best paper award in Inter. Conf. Adv. Computing & Communication- 2006 from NIT, Surathkal
2.	(T ·)	Sensor Networks, AdhocNetworks, Embedded System	
3.	Dr. Rakesh Mohanty	Scheduling, Graph Theory-Coloring,	Best Research Paper Award-
4.	Dr. Manas Ranjan Kabat	WSN(MAC Protocols)	Best paper award in Inter. Conf. Adv.Computing & Communication 2006, from NIT, Surathkal.
5.	Dr. Suvasini Panigrahi	Database Intrusion Detection, Fraud Detection, Wireless Multi media Sensor Networks	
6.	Mr. Satya Prakash Sahoo	Computer Network	
7.	Ms. Sumitra Kisan	Image Processing, Cryptography and Network Security, OS	
8.	Majhi	Decision Science, Information Systems, Cloud Computing,	

		Network & Internet Security, Database Applications.	
9.	Ms. Alina Mishra	Software Engineering, Program Slicing, Soft Computer Network	
10.	Mrs. Santi Behera	Wireless sensor Networks	
11	Ms. Alina Dash	Computer Networking	

DEPARTMENT OF ELECTRICAL ENGINEERING

1. About the Department:

The Department of Electrical Engineering of the erstwhile University College of Engineering, Burla is one among the first branches to be instituted in 1956. The department has grown in consonance with the changing needs of the society and pushed new frontiers of the discipline without shedding its strength in core areas of electrical engineering. The department has integrated modern pedagogical methods incorporating the focus to instill 21st century skills in the students. The contribution of the department to nation building is highlighted by the prominent positions the alumni occupies across the world. The industry institute interaction has been significantly improved over the years resulting in capacity building. The graduates of the department continue to be in great demand by the industry which is attested by the fact that about thirty industries recruit from the discipline every year through campus placement. The department has a mini library with more than five hundred books and periodicals. The department has a society named "Electrical Engineering Society" in which all students and faculty members are members. The significance of the department can be judged by the fact that the Government of Odisha has approved to open a Center of Excellence in Electrical Engineering with an approximate investment of Rs 10 crores. The department currently offers B.Tech. in Electrical Engineering, M.Tech. in Electrical Engineering with three specializations, that is, Power System Engineering, Power Electronics Control of Drives and Control and Instrumentation. The UG and PG programs of the department has been approved by AICTE and accredited by National Board of Accreditation.

Mission

To produce Electrical Engineers with dynamic well rounded personalities adaptable to ever increasing demands of emerging technologies involving analytical and practical skills.

Vision

- To develop the department as a renowned academic centre of learning in the discipline of Electrical Engineering.
- To establish research and development centre of repute so as to encourage active participation with industry by staff and students to take on practical problems of industry and to provide feasible solutions.
- To establish tie-ups with institutions of national and international repute and to foster building up of a wide knowledge base to keep in tune with ever increasing demands of technologies.

 Developing simple, appropriate technologies, which will be instrumental in the up-liftment of rural society.

2. Faculty Details:

PRO	Name DFESSORS	Qualification	Specialization
1.	Dr. Bibhuti Bhusan Pati	B.Sc. Engg.(UCE Burla), M.Tech (IISc. Bangalore), Ph.D (Utkal University)	Control System Engineering
2.	Dr. Prakash Kumar Hota	B.E (REC) Tiruchirapalii, M.Sc (Engg) (Sambalpur Univ.), Ph.D (Engg) (Jadavpur University)	Industrial Power Control & Electric Drives, Power System Engineering
3.	Dr. Pawan Kumar Modi	B.Sc.(Engg.) (REC, Rourkela), M.E. (UCE, Burla), Ph.D. (IIT Roorkee)	Power System Engineering, Power System Planning and Reliability, Distribution System Engineering
4.	Dr. Sidhartha Panda	B.E.(Bangalore University), M.E.(UCE, Burla/ SU), Ph.D. (IIT, Roorkee)	Power System Engineering.
ASS	OCIATE PROFESSORS		
5.	Dr. Manish Tripathy	B.E. (NIT, Rourkela), M.E. (S.U.), Ph.D.(IIT Delhi)	Power System Engineering
6.	Dr. (Ms.) Banaja Mohanty	B.Tech.(C.E.T, BBSR), M.Tech.(U.C.E, Burla), Ph.D(VSSUT, Burla)	Power System

7. 8.	Dr. Siba Prasada Panigrahi Dr. Papia Ray (HOD)	B. Tech (CET, Bhubaneswar), M.E. (NIT, Rourkela), Ph. D (Berhampur University) B. Tech. (Govt. Engg college, Bihar), M. Tech. (NIT Jamshedpur), Ph.D (I.I.T Delhi),	Management, Signal Processing
<u>ASS</u>	SISTANT PROFESSORS		
9. 10.	Mr. Basanta Kumar Rana Dr. Bidyadhar Rout	ME (Integrated) (Indian Institute of Science) B.E. (IGIT, U.U.), M.E. (BESU, Howrah)	Real Time Hardware and Software Control System Engineering
		Ph.D (VSSUT, Burla)	88
11.	Ms. Mamun Mishra	B. Tech. (BPUT), M. Tech. (VSSUT, Burla)	Power System Engineering
12.	Dr. Deepak Kumar Lal	B. Tech. (BPUT, Rourkela), M. Tech. (NIT Jamshedpur), Ph.D (VSSUT, Burla)	Power System
13.	Dr. Ramesh Ch. Prusty	B.Tech, M.Tech, Ph.D (VSSUT, Burla)	Power System Engineering
14.	Dr. Raseswari Pradhan	B. Tech. (IGIT Sarang) M. E. (Jadavpur University) Ph.D. (NIT, Rourkela)	Control System
15.	Dr. Rajat Kanti Samal	B.E (UCE Burla), M.Tech. (IIT, Roorkee), Ph.D (VSSUT, Burla)	Hydroelectric Systems
16.	Ms. Debidasi Mohanty	B. Tech. (VSSUT Burla), M. Tech. (NIT Trichy)	Power System
17.	Ms. Nutan Saha	B. Tech. (IGIT, Sarang)M. Tech. (IIEST,Shibpur, Kolkata)	Power Electronics and Drives
18.	Dr. Rosy Pradhan	B. Tech. (CET, BPUT), M. Tech. (NIT Rourkela) Ph.D (VSSUT, Burla)	Control and Automation
19.	Ms. Bineeta Soreng	B. Tech (CET, Bhubaneswar), M. Tech (NIT Rourkela)	VLSI Design and Embedded System
20.	Ms. Prangya Mohanty	B.Tech (B.P.U.T. Odisha) ,	Power Electronics

M.Tech(N.I.T. Rourkela)

And Drives

21.	Mr. Amit Mallick	B.Tech (B.P.U.T),	Power System
		M.Tech (VSSUT)	Engineering
22.	Mr. Pratyusha Pratik	B.Tech. (VSSUT, BURLA),	System and Control
		M.Tech (IIT ROORKEE)	
23.	Ms. Sagarika Rout	B.Tech (B.P.U.T)	Power System
	-	M.Tech (VSSUT)	Engineering
24.	Dr. Jatin Kumar Pradhan	B.Tech (VSSUT, Burla),	Control System
		M.Tech (NIT Rourkela)	(Linear Control,
			Robust Control)
25.	Mr. K Sujita Kumar	B.E. (VSSUT Burla),	Power System
	Achary	M.Tech. (NIT	
		Tiruchirappalli)	
26.	Ms. Bisaya Bhoi	B.Tech (IGIT Sarang)	Power System
		M.Tech. (VSSUT, Burla)	Engineering
27.	Mr.Reddi Ganesh	B.Tech(MVGR	
		Vizianagaram)	
		M.Tech(NIT Durgapur)	
		PhD continue(NIT	
		Durgapur)	

3. Technical Staff details

Sl.	Name	Designation	e-mail address
No.	Name	Designation	t-man address
1	Sri S.P.Tripathy	Comp.Prog.	sp_tripathy@rediffmail.com
2	Sri Deepak K.Biswal	Sr Instructor	deepak_uceelect@rediffmail.com
3	Sri.Surendra Swain	Mech. Gr.II	
4	Sri Manash Ranjan Nayak	Sr. Assistant	mrnayak_vssut@yahoo.com
5	Sri Sagar Ranjan Samal	Lab. Attendant	sagar.ranjan14@gmail.com
6	Sri Sanjib Ku. Jena	Jr. Instructor	jena.sanjib656@gmail.com
7	Sri Sameer Ku. Behera	Jr. Instructor	sameerb876@gmail.com
8	Sri Amit Ku.Sahoo	Jr. Instructor	amitsahoo78@gmail.com
9	Sri Mrutyunjay Das	Mech. Gr-III	mrutyunjaydas@gmail.com

4. Support staffs:

Sl.	Name	Designation	
No.	rame	Designation	
1	Sri.A.K.Rao	Head Peon	
2	Sri. Parsu Haripal	Peon	
3	Sri Upendra Padhan	Peon	
4	Sri Sukanta Prusty	Watchman	

5. Courses offered:

The Department of Electrical Engineering offers

Sl.	Program	course	Year of completion
No.			
1.	B.Tech	Electrical Engineering	Four
2.	Integrated Dual	B.Tech. in Electrical Engineering	Five
	Degree	(EE) and M.Tech. in Power System	
		Engineering (PSE).	

3.	Executive	Electrical Engineering with Four
	B.Tech	specialization in Power
		Engineering.
4.	M.Tech	Electrical Engineering with Two
		specialization in
		a) Power System Engineering (NBA
		Accredited)
		b) Power Electronics Control&
		Drives
		c) Control & Instrumentation
5.	Ph.D.	Doctor of Philosophy in all major
		fields of Electrical Engineering

6. Laboratory Details:

The Department is constantly updating the various laboratories and the following laboratories are available to support students and faculty in research for various areas related to electrical engineering.

Sl.No.	Name of the Lab.	Major Equipment's
1	Electrical Machines Laboratory	DC shunt motor, DC compound motor, Slip-Ring Induction Motor, DC shunt motor and Alternator Set, DC Shunt Motor and Generator Set, DC Series Motor and Generator Set, DC Shunt Motor and Compound Generator Set, Single phase induction motor, Reluctance Motor, Three Phase Transformers, Single Phase Transformer,1-Phase Variac's ,3-Phase Variac's Standard Volt meter, Ammeter, Wattmeter etc
2	Power Electronics and Drives Laboratory	IGBT,MOSFET,SCR & TRIAC Static characteristics study module SCR , MOSFET, IGBT Dynamic Characteristics Module R,RC, UJT triggering, Forced Commutation, Step Down Chopper, Boost Chopper, Series inverter, Three phase IGBT PWM Inverter, Three phase IGBT Four quadrant, DC chopper Single & Three phase SCR based half & fully controlled converter for DC motor drive, Cyclo-converter, Scientific color 100MHz 250MS/s, Real time (50GS/s equivalent time Digital storage C.R.O,L&T make 20MHz.Digital storage, Smart Grid and power system set up, integrated with PV panel, wind turbine and grid
3	Microprocessor &	8086 microprocessor kits (LCD version), 8051 micro controller (LCD version), LCD interfacing with 8051,

	Microcontroller	DAC, ADC interfacing with 8051, 8085 Microprocessor	
	Laboratory	based relay testing kit, Stepper motor controller interface.	
4	II ADOLAIOLV	choke coils, Single Phase Energy Meter, CRO's, Rheostats, Wattmeter's, Function Generators Spectral analyser of a non-sinusoidal wave form	
5	Instrumentation and Control Laboratory	Kelvin's double bridge, Potential Transformers, Thermo Couple, Current transformers AC/DC modular servo system, P.I.D. Unit, Digital servo system, Traducer & instrumentation kit, Linear system simulator, Relay control system, Compensation design, P.I.D.controller, Digital Control, Programmable Logic Control (PLC) Trainer	
6	High Voltage Laboratory.	100 kV AC testing transformer, 140 kV DC, 280 kV DC 2-stage 0.49KJ,140 kV Impulse Generator test set with all accessories,100mA, 100MHz 500Ms/s Digital storage Oscilloscope for impulse Voltage Measurement, Dielectric dissipation factor (Tan delta) & Specific resistance of Solid and liquid materials, BDV test transformer oil, Transformer turns ratio meter.	
7	Power System Laboratory	Artificial transmission line, Cable fault locator, 12bit 100KHz. FFT analyzer SM-2701, AC Network Analyser, DC Network Analyser, Supervisory Control and Data Acquisition System (SCADA) trainer with Analog and Digital Modules, OPALRT, MATLAB, PSCAD, PSIM, DIgSILENT software	
		Details of Computers and Softwares:	
		SystemConfiguration: 28Nos	
		Processor: Icore 5	
		RAM:2GB	
	Computation	HardDisk:40GB	
8	Laboratory	Operating System: Microsoft Windows 8	
		Software's: MATLAB and Its Tool Boxes	
		EMTDC/PSCAD	
		ETAP, EMTP	
		TC/VC++/VB++	
	1		





Electrical Machines Lab. Power Electronics Lab.

7. Details of Research Area of Faculty Members:

Sl. No	Name Faculty Members	Research Area	Award/Distinctions
1.	Dr. Bibhuti Bhusan Pati	Control System, Power System control, AUV Control	-
2.	Dr. Prakash Kumar Hota	Power System Operation and control, deregulation and Hybrid Generation Systems	State Gold Medal-1998, (Ist prize in Electrical, Electronics & Computer Engineering Division) conferred by Orissa Engineering Congress for a research paper in 1998. Rajalaxmi Memorial Best Engineering College Teacher Award for Orissa State - 2002, given by The Indian Society for technical Education, New Delhi.
3.	Dr. Pawan Kumar Modi	Power System Planning and Reliability, Distribution System, Power System Optimization, Soft Computing Application	-

4.	Dr. Sidhartha Panda	Application of Soft Computing Techniques to Power System Operation and Control	-
5	Dr. Manish Tripathy	Power Systems Dynamics, PSS, FACTs, Application Intelligent Techniques in Power System optimization and Control, Wind Power	-
6.	Dr.(Mrs.) Banaja Mohanty (HOD)	Power Systems	Best Paper award for 2019 International journal of modelling and simulation
7.	Dr. Siba Prasada Panigrahi	Energy Management, Signal Processing	
8.	Dr. Papia Ray	Power Systems & Power System Protection	
9.	Mr. Basanta Kumar Rana	Industrial Automation , Drives	
10	Dr. Bidyadhar Rout	Design and application of nonlinear controller in Power system stability	
11.	Ms. Mamun Mishra	Power Distribution System Planning & Control	
12.	Dr.Deepak Kumar Lal	Distribution System Planning & Operation Automatic Generation Control Economic Load Dispatch Renewable Energy Integration Power Quality	
13.	Dr.Ramesh Ch. Prusty	Power Systems	
14.	Dr.Raseswari Pradhan	Control Systems Engg.	

1.5	D D : (K (C)	117' 1 D D	C .:C . C D
15.	Dr. Rajat Kanti Samal	Wind Power; Power	Certificate of Reviewing
		Systems; Sustainable	(Electric Power Systems
		Energy	Research) by Elsevier
			Reviewer Recognition,
			September 2019
4.5	Mr. Debidasi		
16.	Mohanty	Power Systems	
17.	Mrs. Nutan Saha	Power Electronics	
18.	Dr. Rosy Pradhan	Control & Automation	
19.	Ms. Bineeta Soreng	VLSI Design &	
		Embedded Systems	
•	Mrs. Prangya		
20.	Mohanty	D C (1 1D'	
	·	Power Control and Drives	
21.	Mr. Amit Mallick	Power System	
		Engineering	
22.	Mr. Pratyusha Pratik	System and Control	
23.	Ms. Sagarika Rout	Power System	
		Engineering	
24.	Dr. Jatin Kumar	Control System (Linear	
	Pradhan	Control, Robust Control)	
25.	Mr. K Sujita Kumar	Power System	
	Achary		
26.	Ms. Bisaya Bhoi	Power System	
		Engineering	
27	Mr.Reddi Ganesh		

8. Publication

		Till 2018	2019
Conferences	International	126	15
Comerences	National	7	3
Louwnol	International	173	32
Journal	National	15	

9. Sponsored Research Projects (Ongoing):

S.N.	Project Title	Principal Investigator	Project Duration	Amount (Rs. In Lakhs)	Funding Agency
1	Assessment of wide-area measurement signal by computational intelligence techniques	Dr. Papia Ray	02 Years	15.46	DST
2	Modernization of electrical power system laboratory	Dr. A.K. Barisal	02 years	18.00	AICTE MODROB

10. Consultancy:

List of testing and R&D facilities available in the Deptt. of Electrical Engg.

- □ Measurement of dielectric loss factor (tanδ), capacitance and permittivity of solid dielectric (up to 10 KV) using shearing bridge.
 □ Breakdown strength tests on solid, liquid and gaseous dielectrics using AC (100KV), DC (280 KV) and impulse (140 KV, 0.49 KJ, L.I.).
 □ Testing of dielectric strength of the insulating oil (transformer oil etc.) as per relevant I.S.S.
 □ Calibration and testing of energy meters as per relevant standards.
 □ AC Power measurement.
 □ Testing of dielectric strength of insulators:

 1. Dry / Wet flashover test.
 - 2. Dry / Wet flashover test with one minute withstand test as per relevant I.S.S.
 - ☐ Testing of circuit breakers. (specification :230V / 400V, 0-100 A)
 - 1. Measurement of low resistance by Kelvin's double bridge $(0-0.001\Omega)$
 - 2. Measurement of insulation resistance of any equipment/ dielectric samples.
 - 3. Measurement of earth resistance.
 - 4. LCR Q-measurement.
 - 5. Wave form Analysis.

11. Other Information of the department

The faculty members have large numbers of research publications in international journals and have received international recognition. The Department has organized continuing education programs in the following areas for the benefit of the field engineers and the faculties of various institutions inside as well as outside the state.

- a) Power System Operation & Control
- b) Intelligent Systems and their Applications to Modern Power Networks
- c) Power Quality Issues
- d) Information Technology
- e) Power system Optimization
- f) Power Electronics and Drives
- g) MATLAB / SIMULINK
- h) Microprocessor, Digital Electronics, DSP, VLSL, Soft Computing,
- i) Control System Design and Analysis
- j) Power electronics control
- k) Renewable energy sources
- l) Micro-grid

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. About the Department:

The department of EEE is made functional with an aim to produce qualified engineers with sound knowledge in electrical engineering and a strong background in electronics. At present, it offers one undergraduate degree, B.Tech. in EEE. Initially, the department was established in year 2010, combined with existing Electrical Engineering department. It becomes operational as an independent department in year 2020. The department is offering an excellent academia environment to pursue B.Tech. in EEE, M.Tech. in control and instrumentation (C&I) engineering, and Ph.D. in experts available with department in specialized domain of research. This department also aims to establish itself as a forefront in R&Ds in the areas of Smart Grid, Power System Optimization, Power System Instrumentation, Industrial Automation, Smart Sensors, Robust Control, Image Processing, Digital Signal Processing, Industrial Communication, Biomedical Instrumentation, Internet of Things (IoT) & Cyber Physical System. The department have five ongoing research projects of worth more than ₹ 50 lakhs in its credit, funded by CPRI, Bangalore, Ministry of Power (MoP), Govt. of India and NPIU-MHRD, New Delhi.

Presently, the department has well-equipped state-of-the-art facility to test and calibrate the gas density sensor for SF6-GIS environment, funded by the Central Power Research Institute (CPRI), Bangalore, Govt. of India. The department also has some other sponsored project funded by NPIU-MHRD under TEQIP-III grant in the areas of IoT and Cyber Physical System, Image Processing, and Communication System engineering. In this way, the department has shown its deep involvement in industry-academia tie-up to solve some of real life for our society related to specialized domain of EEE in India. We are also aiming to establish different laboratories to augment the course works and enhance the experimental tests, validation, and research potentials such as Instrumentation & Sensors Lab (Masters), Control Lab (Masters), CAD Electrical, Signals & Systems Lab, Network Lab and Measurements and Instruments Lab.

Our more than 80% final year students have already been successfully offered for job by various companies, viz., L&T, Bhusan, Adani, Jindal, TCS, Infosys, Tech Mahindra etc. EEE students put their footprint at national and international level competitions from IITs, ISRO, BARC, HAL and Russian Federation. This glorious journey is kept on continuing by the students to achieve new heights. Further, Two of our faculties have been awarded Fellow position by the Institution of Engineers (India), Life Member by ISTE, India, and Senior Member by IEEE, USA. The department holds one Patent in its credit; adapted one international edition book for Indian subcontinent, published one more book, and also have credit of publishing numerous high standard journal papers by different publishing houses of national and international repute. Our faculties are actively involved in different working groups of international committees for the implementation of Standards and Protocols.

VISION AND MISSION:

Mission: The graduates in Electrical & Electronics Engineering program of VSSUT Burla strives to create world class Electrical & Electronics Engineers by

- Imparting quality education to its students and enhancing their skills
- Encouraging innovative research and consultancy by establishing the state of the art research facilities through which the faculty members and engineers from the nearby industries can actively utilize the established the research laboratories
- Expanding curricula as appropriate to include broader prospective
- Establishing linkages with world class R&D organizations and leading educational institutions in Indian and abroad for excelling in teaching, research and consultancy
- Developing simple and appropriate technologies for rural areas and eventually contributing to sustainable development of the society

Vision: The graduates in Electrical & Electronics Engineering program of VSSUT Burla strives to be recognized globally for imparting outstanding technical education and research leading to well qualified truly world class leaders and to unleash technological innovations to serve the global society with an ultimate aim to improve the quality of life.

Oualification

Specialization

2. Faculty Details:

Name

	1 (uiii)	Quantication	Specialization				
PRO	<u>PROFESSORS</u>						
1.	Dr. Rabindra Kumar Sahu	M.E., (S.U.), Ph.D (IIT Madras) FIE, LMISTE	Power System Engineering				
ASS	SOCIATE PROFESSORS						
2.	Dr. Gyan Ranjan Biswal, HOD	B.E., (Pt. RSU Raipur), M.Tech. (Honours), (CSVTU Bhilai) Ph.D., (IIT Roorkee) FIE, LMISTE, SMIEEE	Power System Automation; Engineering				
3.	Dr. Santi Behera	B.Tech, (C.E.T, Bhubaneswar), M.E (Sambalpur University), Ph.D. (NIT, Rourkela)	Power system stability, Optimization techniques.				
ASS	SISTANT PROFESSORS						
4.	Ms. Sarmila Garnaik	B. Tech. (Utkal University), M. Tech. (UCE, Burla)	Communication System Engineering				

5.	Dr. Lingraj Dora	B. E., UCE, Burla), M. Tech., (VSSUT, Burla)	Communication System Engineering	
6.	Dr. Sasmita Behera	B.E. (UCE, Burla, SU), M. E (BPUT), Ph. D (VSSUT)	Power Systems	
7.	Mr. Bibhuti Prasad Sahoo	B. Tech (NIT, Rourkela), M.Tech (IIT Roorkee)	Measurement & Instrumentation	
8.	Mr. Prasanta Kumar Parida	B. Tech. (UCE, BURLA), M. Tech. (VSSUT, BURLA)	Communication System Engineering	
9.	Mr. Hemant Modi (TEQIP)	B.Tech. (NIT Meghalaya); M.Tech. (MNIT Jaipur)	Power Electronics and Drives	
10.	Mr. Pothuraju Prabhu Kumar (TEQIP)	B.Tech. (KL University); M.Tech. (IIT Roorkee)	Power Systems	

3. Courses Offered:

i.

The Department of Electrical Engineering and EEE offers

- B.Tech. degree in Electrical and Electronics Engineering (EEE).
- ii. M.Tech. degree in Electrical Engineering with specialization in Control & Instrumentation.
- iii. Doctor of Philosophy (Ph.D.) in specialized research areas of EEE.

4. Laboratory Details:

The Department is in process of establishing following labs to provide hands-on experience to students, and also to support faculties in their research areas, related to EEE.

	Name of the Lab.		
S. No.	(UG, BTech and PG, MTech)	Major Equipment	
1		Choke coils, Single Phase Energy Meter, CRO's, Rheostats, Wattmeter's, Function Generators Spectral analyser of a non-sinusoidal wave form.	
2	Measurement and Instrumentation	Kelvin's double bridge, Potential Transformers, Thermo Couples, Current Transformers, Traducer & instrumentation kit: force, displacement, moisture, velocity measurement; Linear system simulator.	
3	Analog and Digital Electronics	BJT basing kit; Power amplifiers kit; FET characteristics kit; Oscilloscope, Function generator, Transistor power supply; Digital IC trainer kit, FPGA kit, Xilinx kit.	

4	Microprocessor & Microcontroller	8085 and 8086 microprocessors kits (LCD version), 8051 microcontroller (LCD version), LCD interfacing with 8051, DAC, ADC interfacing with 8051, 8085 Microprocessor based relay testing kit, Stepper motor controller interface.
5	CAD Electrical Apparatus	MATLAB & Simulink platform; OPEL-RT, hardware to be procured.
5	Signal & Systems I-and-II *	Performed using MATLAB & Simulink platform; hardware to be procured.
6	Communication System *	Performed using MATLAB & Simulink platform; hardware to be procured.
7	Control Systems (M.Tech.)	Digital Control, Programmable Logic Control (PLC) Trainer; PAC module, NI-cRIO, ELVIS-III, Inverted Pendulum
8	Instrumentation and Sensors (M.Tech.) **	Smart Sensors Testing and Calibration facility, Data Acquisition module, NI-cRIO, ELVIS-III, LabVIEW.

NOTE: All the labs are under procurement process of new equipment, both in terms of hardware and software after independently functioning as separate department from Jan. 2020.

** The lab is sponsored in part under Research Scheme on Power (RSoP) by central power research institute (CPRI), Bangalore, Ministry of Power (MoP), Govt. of India, and also supported in part under

* The lab is supported in part by NPIU-MHRD, TEQIP-III under Collaborative Research and Innovation (CRI) Scheme.

5. Details of Research Area of Faculty Members:

S. No	Name Faculty Members	Research Area	Award/Distinctions
1.	Prof. Rabindra Kumar Sahu	Modeling, Simulation and Analysis of Power System Operation, and Control Automatic Generation, FACTS Devices Deregulation; Restructured Power Systems, and Application of Soft Computing in Electrical Engineering	of Engineers (India), 2015 Received best paper award in IEEE International Conference on Circuit, Power and Computing Technologies

2.	Dr. Gyan Ranjan Biswal, HOD	Power System Automation: Power Generations and Substation Automation (IEC 61850) Sustainable Sources of Energy (HFCs and Solar PV / Hybrid Energy Systems) Smart Monitoring: Smart Sensors, Intelligent Control and Internet of Things (IoT) and Cyber Physical System (CPS) in Micro-grid	 Fellow of IE (India) in year 2019; Senior Member- IEEE, USA in year 2017, and Life Member of ISTE, India in year 2004. Holds one Indian Patent; filed one more. Adapted one international edition book, Digital Fundamentals, Pearson India. Recipient of MHRD Fellowship, and Centre for International Cooperation in Science (CICS) jointly awarded by INSA-CSIR-DAE/BRNS-CICS. Recognized as Outstanding Contributions in Reviewing by ISA Transactions and Int. J. Hydrogen Energy, Elsevier for the year 2017.
3.	Dr. Santi Behera	Voltage stability using intelligent techniques	State award: Institution prize 2019: Power quality analysis of the hybrid SPV-wind integrated system with the use of FC and STATCOM
4.	Ms. Sarmila Garnaik	VLSI Signal Processing (speech recognition)	
5.	Dr. Lingraj Dora	Medical Image Processing, Pattern Recognition, and Communication System Engineering	AI Techniques for Biomedical Engg. Appln., Lap LAMBERT Academic Publishing, Germany.
6.	Dr. Sasmita Behera	Power Systems	
7.	Mr. Bibhuti Prasad Sahoo	Power System Optimization, Measurement & Instrumentation	Awarded MHRD Fellowship, 2009-11
8.	Mr. Prasanta Kumar Parida	Image Processing and Computer Vision, Signal Processing	

9.	Mr. Hemant Modi	Power Drives	Electronics	and	Awarded Fellowship	MHRD
10.	Mr. Pothuraju Prabhu Kumar	Power S	ystems		Awarded Fellowship	MHRD

6. Publications of the Department:

		Till 2018	2019
Conferences	International	65	16
Comerences	National	15	02
Journal	International	48	09
Journal	National	16	
Pools Chantons	International	17	05
Book Chapters	National		

7. Sponsored Research Projects (Ongoing):

S. No.	Project Title	Principal Investigator	Projec t Durat ion	Amoun t(₹ In Lakhs)	Funding Agency
1	IEC 61850 complaint SFC monitoring system GW insulated switch gear Project code: RSOP/2017/TR/2/1962017	Dr. G.R. Biswal	02 Years	48.00	CPRI, Bangalore , MoP
2	Internet of things Driven Speed Control of Electrical Equipment(s) Vide. No. VSSUT/TEQIP/37/2020, dt. 16/01/2020	Dr. G.R. Biswal	01 Year	0.50	NPIU- MHRD, TEQIP-III
3	Medical Image Analysis using Deep Learning	Dr. L. Dora	01 Year	0.50	NPIU- MHRD, TEQIP-III
4	Image Classification using AI Techniques	Dr. L. Dora	01 Year	0.70	Seed Grant, TEQIP-II

5	Energy Management by improvement of PV generation dispatchability in isolated system and DC microgrid Sanction Letter No. VSSUT/TEQIP/35/2020 Dt. 16.01.2020	Dr. S. Behera	01 Year	0.45	NPIU- MHRD, TEQIP-III
6	Deep Learning for Medical Image Analysis	Mr. P. Parida	01 Year	0.50	NPIU- MHRD, TEQIP-III

8. Consultancy:

List of testing and R&D facilities available in the Deptt. of Electrical & Electronics Engineering (EEE)

- A sophisticated facility to test and calibrate the gas density leakage sensor to be withstand in 50-MV AC / 70-MV DC environment; specially designed for SF6-Gas Insulated Switchgear (GIS)/ Circuit Breaker environment.
- Necessary infrastructure to design and develop Smart plugs for rotating electrical devices.

9. Other Information of the department

- a) The Department has also organized different types of continuing education programmes, namely, STTP/STC/FDP etc. for the benefit of the field engineers and the faculties of various institutions inside as well as outside the state. Some of the lists of programs are as follows:
- AICTE QIP Sponsored Short Term Course on "Intelligent Control and Sensing of Smart Grid and Smart Cities", Duration: One Week (30.04.2018 to 05.05.2018). [Coordinator: Dr. Gyan Ranjan Biswal].
- TEQIP-III Sponsored STC on "Modeling and Simulation of Electrical Systems using MATLAB/Simulink", Duration: One Week (28.10.2019 to 02.11.2019). [Coordinator: Dr. Sasmita Behera]
- AICTE Sponsored STTP on "Applications of Soft Computing in Power System", Duration: One Week (02.12.2019 to 07.12.2019). [Coordinator: Dr. Sasmita Behera]
- (b) Course Restructuration: New course curricular development; with effect from AY 2019-20
 - Dr. Sasmita Behera for B.Tech. EEE and
 - Dr. Gyan Ranjan Biswal for M.Tech. C&I

1. About the Department:

Electronics, particularly computer usage coupled with recent explorations has already crept into every sphere of human activities. Every industry, institution & organization feels the need of an Electronics Engineer. Advanced countries in the world have gone to such depths of electronics today that an Electronics Engineer is indispensable in every front. Opportunity in this highly sophisticated and advanced branch of engineering is immense. Keeping in view the need of the subject, the Electronics and Telecommunication Engineering Department of VSSUT, Burla offers quite an attractive up-to-date 4 year B.Tech Degree course, 2 year M.Tech Degree courses and Ph.D. programme. The students graduated from this department are now well-placed in important National and International organizations. The department organizes National conference, Symposia, Seminars, Exhibitions & Short term courses on advanced topics. The students of this department have own distinctions in All India Technical Students Meet for their technical paper presentation.

2. Faculty details:

	Name	Qualification	Specialization
PR	<u>OFESSORS</u>		
1.	Dr. Rutuparna Panda	B.Sc. (Engg.), M.Sc. (Engg), UCE Burla, Ph.D. (Engineering) (IIT, Kharagpur)	Communication, Signal Processing, Image processing
2.	Dr. Umaranjan Jena	B.Sc. (Engg.) (UCE, Burla), M.Tech (III, KGP), Ph.D (Jadavpur University)	Computer Vision & Image Processing
AA	SSOCIATE PROFESSORS		
3.	Dr. Nrusingha Prasad Rath	B.E., Ph.D (Jadavpur University)	Computer Vision & Recognition of Digital Images
4.	Dr. Debasis Mishra	BE (University of Mysore), M.Tech (BHU), Ph.D (Engg.) (Jadavpur Univ.)	Microwave Engineering
5.	Dr. Manoranjan Pradhan	B.E., M.E. (UCE, Burla), Ph.D (Sambalpur University)	Microprocessor, Digital VISI Design, FPGA based design
6.	Dr. Kabiraj Sethi (HOD)	B.Sc (Engg), (UCE, Burla), M.Tech (BPUT), Ph.D (Sambalpur University)	Communication System Engineering/VLSI Design
7.	Dr. Sanjay Agrawal	B.E., M.E , (UCE, Burla),	Communication System

		Ph.D (Sambalpur University)	Engineering / image processing
8.	Dr. Harish Kumar Sahoo	B.E. (Utkal University), M.Tech. (N.I.T. Rourkela), Ph.D. (Sambalpur University)	Electronic Systems & Communication (MIMO OFDM Nireless Systems Adaptive Estimation)
9.	Dr. Arunanshu Mahapatro	Diploma, BE, M. Tech, Ph.D (NIT Rourkela)	Wireless communication, Senior networks cognitive radio
10.	Dr. Nilamani Bhoi	B.E. (UCE, Burla), M.E.(Jadavpur University), Ph.D (NIT, Rourkela)	Image Processing
11.	Dr. Biswa Binayak Mangaraj	B.E. (UCE, Burla), M.E. & Ph.D (Jadavpur Univ.)	Antenna Analysis and design
ASS	SISTANT PROFESSORS		
12.	Mr. Hrudananda Pradhan	BE (UCE, Burla), M Tech (NIT, Rourkela)	(Optimal antenna design) Antanna Engineering
13.	Ms. Diptimayee Konhar	B.Tech, (UCE, Burla) M.Tech. (VSSUT)	Communication System Engineering
14.	Dr. Bikramaditya Das	B.Tech, (BPUT, Rourkela), M.Tech (NIT, Rourkela), Ph.D (VSSUT)	Wireless Communication, Adaptive Control, Control of Underwater Vehicles, ROBOTICS
15.	Mr. Bandan Kumar Bhoi	B.Tech (BPUT Odisha), M.Tech (IIIT Hyderabad)	Digital VLSI Design, Embedded system design, Quantum computing
16.	Mr. Suvendu Narayan Mishra	B.E., (Utkal) M.Tech, (VSSUT)	Communication Systems Engineering
17.	Mr. Aditya Kumar Hota	B.E. (S.U.), M.Tech.(VSSUT)	Communication System Engg., VLSI Design
18.	Ms. Madhusmita Panda	B.Tech (JITM) M. Tech (BPUT), M.B.A (H.R)	Computer Science Engg.

19.	Ms. Rasmita Sahu	B.E (S.M.I.T(BPUT), M.Tech (VSSUT)	Communication system Engineering
20.	Ms. Lopamudra Ghadai	M.Tech. (VSSUT, Burla)	Digital signal processing
21.	Ms. Sakambhari Mahapatra	B.Tech.(BPUT) M.Tech.(VSSUT)	Communication System Engineering
22.	Mr. Manasa Ranjan Jena	B.Tech., M.Tech.(IIT Kharagpur)	Microelectronics and VLSI Design
23.	Mr. Dharamvir Kumar	BE (IETE, New Delhi), M.Tech (ISM, Dhanbad)	VLSI
24.	Mr. Ananda Kumar Behera	B.Tech. (BPUT), M.Tech (NIT Durgapur)	Tele Communication Engineering
25.	Dr. Sheeja K. L.	B.E., M.Tech., (NIT Rourkela), Ph.D. (NIT, Rourkela)	Antenna Engineering
26.	Ms. Sangeeta Sa	B.Tech (UCE Burla), M.E.(IISc Bangalore)	Telecommunication Engineering
27.	Mr. Bijay Kumar Sa	B.Tech. (BPUT) M.Tech. (NIT Rourkela)	Communication & Signal Processing
28.	Dr. Ashish Kumar Sharma	M.Tech (UTU Belgium), PhD (BITS Pilani, Rajasthan)	Communication System Engg., Microwave Devices
29.	Ms. Tunirani Nayak	B.Tech (UCE Burla), M.Tech (ITER, SOA University)	Communication, Image Processing
30.	Mr. Subrat Kumar Sethi	B.E., M.Tech.(IIT, Kharagpur)	Communication Engineering
31.	Mr. Radhashyam Patra	B. Tech (VSSUT) M.Tech (IIT-BHU Varanasi),	Signal Processing, Digital Techniques, Wireless communications
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3. Courses offered:

- (a) B.Tech: Electronics and Telecommunication Engineering
 - (b) M.Tech: (i) Communication Systems Engineering
 - (ii) VLSI Signal Processing
 - (iii) RF and Microwave Engineering
 - (c) Ph.D.: Doctor of Philosophy

(d) Laboratory Details:

Sl. No.	Name of the Lab	Major Equipments	Research Facilities
1.	Basic Electronics Laboratory	Analog/Digital storage CRO, 20/30 MHz CRO, 2MHz function/pulse generator, Analog & Digital multimeters, Multioutput power supply, PSPICE, TrainingKits	Equipment are used for UG & PGStudents
2.	Microprocessor Laboratory	Microprocessor trainer kits (8085,8086),Microcontroller trainer kits (8051),Interfacing cards	Hardware and Softwareare used for UG & PGStudents
3.	Analog & Digital Electronics circuits Laboratory	Analog/Digital storage CRO, 20/30 MHzCRO, 5MHz function/pulse generator, Analog & Digital multimeters, Multioutput power supply, Bread boards with function generator	Hardware are used for UG & PGStudents
4.	Communication Laboratory	Analog/Digital storage CRO, Signal Analyzer, Satellite communication kit, Radar trainer kit, Kits for Analog and Digital Communication, PCs with LABVIEW software	Hardware and Softwareare used for UG & PGStudents
5.	Microwave Laboratory	Microwave Test Benches, Microstrip Antenna trainer, PCs withHFSS (CAD tool) RF signal generator, spectrum Analyser	Hardwares and Softwaresare used for UG, PG, Ph.DStudents
6.	EDA Lab.	PCs with software like Cadence, Visual TCAD, Symica	Softwareare used for PG, Ph. DStudents
7.	VLSI Lab.	PCs with software like Vivado , PSpice, Microwind, FPGA trainer kits	Hardware and Softwareare used for UG & PGStudents

				Softwareare	used
	TSE	PCs with MATLAB,	Online Image	for PG,	Ph.
8.	Lab.	Software	omme mage	DStudents	
	Lau.				

5. Details of research area of Faculty members

Sl. No.	Name of the Faculty member	Research Area	
1	Dr. Rutuparna Panda	Communication, Signal Processing, Image processing	
2	Dr. Uma Ranjan Jena	Computer Vision & Image Processing	
3	Dr. Nrusingha Prasad Rath	Computer Vision & Recognition of Digital Images	
4	Dr. Debasis Mishra	Microwave Engineering, Microstrip Antennas, Metamaterials	
5	Dr. Manoranjan Pradhan	Microprocessor, VLSI design	
6	Dr. Kabiraj Sethi	Communication System Engineering, VLSI Design	
7	Dr. Sanjay Agrawal	Communication System, Image processing	
8	Dr. B. B. Mangaraj	Antenna Analysis & Design	
9	Dr. Nilamani Bhoi	Image Processing	
10	Mr. Hrudananda Pradhan	Optimal Antena Design	
11	Ms. Diptimayee Konhar	Microwave and Antenna Engineering	
12	Dr. Bikramaditya Das	Wireless Communication, Adaptive Control, Control of underwater Vehicles, ROBOTICS	
13	Mr. Suvendu Narayan Mishra	RF Devices, Antennas, Computational EM	
14	Mr. Bandan Kumar Bhoi	Digital VLSI Design, Embedded system design, FPGA based design	
15	Mr. Aditya Kumar Hota	VLSI Design and embedded systems	
16	Ms. Madhusmita Panda	Wireless Communication, Adaptive Control	
17	Ms. Rasmita Sahu	Microwave and Antenna Engineering	
18	Ms. Lopamudra Ghadai	Digital signal processing	
19	Ms. Sakambhari Mahapatra	Signal Processing, Image processing	
20	Mr. Manasa Ranjan Jena	Microelectronics and VLSI Design	
21	Mr. Dharamvir Kumar	Digital VLSI Design	

22	Mr. Ananda Kumar Behera	Array antenna, Microstrip antennas, Computational EM
23	Dr. Sheeja K. L.	Antenna Engg., Metamaterials Antennas, Fitternas
24	Ms. Sangeeta Sa	Telecommunication
25	Mr. Bijay Kumar Sa	Communication & Signal Processing
26	Dr. Ashish Kumar Sharma	RF & Microwave Communication
27	Ms. Tunirani Nayak	Communication & Signal Processing
28	Dr. Arunanshu Mahapatro	Wireless Sensor Networks
29	Dr. Harish Kumar sahoo	Channel estimation and equalization in MIMO Wireless system, Adaptive System Identification, Neural Networks
30	Mr. Subrat Kumar Sethi	Wireless Communication, Wireless Sensor Networks
31	Mr. Radhashyam Patra	Signal Processing, Digital Techniques

6. Other information of the Department:

Apart from the regular faculty members, following two faculty members are engaged in the department under TEQIP-III program.

1. Mr. Amaresh Kumar Sahoo

2. Mr. Imtiyaz Khan

There are four numbers of permanent technical staffs and three numbers of non-teaching employees are working and are listed in the following table:

S/L NO.	Name	Designation
1	Mr. Tapas Ranjan Mohanty	Senior Instructor
2	Mr. Suraj Kumar Mishra	Junior Instructor
3	Mr. Ramji Dehury	Junior Instructor
4	Mr. Surya Kanta Sahoo	Mechanic
5	Mr. Narendra Kumar Parida	Laboratory Attendant
6	Mr. Rama Chandra Sahoo	Treasury Sarkar
7	Mr. Pramod Kumar Swain	Peon

The department offers facilities for advanced research and has already awarded Ph. D degree to twelve no. of scholars. The faculty members are also pursuing research work regularly leading to publications in national and international journals to their credit. The department has a library of its own with a good number of books along with IEEE magazines & journals to help the students. The department has a society named "Electronics

& Telecommunication Engineering Society" for the students. The department conducts annual national level student seminar "Techtronix" in addition to regular training programs in electronics related subjects in collaboration with institute of national importance & industries.

DEPARTMENT OF HUMANITIES

1. About the Department:

The Department of Humanities was founded in 1956. It is a multi-disciplinary department having three disciplines: Economics, English and Organizational Behaviour. The Department of Humanities plays a unique and distinctive role in an institute where the ethos of science and technology prevails. It is believed that engineering and science are, by their very nature, humanistic and socially derived enterprises. Hence a complete science and technology education must include liberal arts, economics, social and behavioural sciences where the students unite application of scientific principles along with human, moral and social understanding.

The undergraduate courses taught by the department aim at making the science and technology students aware of the various issues concerning man and society. They are meant to sensitize students to the broader social, cultural, economic, ethical and human issues involved in social changes. The vision of the department is to be the centre of excellence in the field of education with creative learning.

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2. Faculty details:

	Name	Qualification	Specialization
ASS	SOCIATE PROFESSOR		
1.	Dr. Jayaprakash Paramaguru (HOD)	M.A., Ph.D (English)	Linguistics & Translation
	ASSISTANT PROFESSORS		
2.	Mrs. Ashapurna Dash	M.A., M.Phil. (English), MBA (HR & BIM)	Linguistics
3.	Mr. Prasant Barla	MBA	HR & Marketing
4.	Dr. Prasanta Kumar Padhi	MA (BU), MPhil (BU), Ph.D (UU), PGDTE(CIEFL, Hyd)	Black American Women Writing, Business Communication, Cross Cultural Communication
5.	Mr. Chandramani	MA (B.U.), M.Phil (B.U.) Ph.D (B.U.)	Indian and Canadian Literature, Feminism
6.	Mr. Auro Kumar Sahoo	M.A (U.U.), M. Phil (Pondicherry Central University), Ph.D (IIT, Bhubaneswar)	Productivity and Efficiency, Applied Econometrics, Micro Economics

3. Course offered:

i) For B.Tech.:

English for communication, Engineering Economics Organisational Behaviour

ii) Ph.D in English

Laboratory details:

Sl No.	Name of the Lab	Major Equipments
1	Language Laboratory	Skill Junction, Head phones, USER SETS, Camera, Projector

5. Details of research area of faculty members :

Sl No.	Name of the faculty	Research Area
1	Dr. Jayaprakash Paramaguru	Translation, British Literature, Linguistics
2	Mrs. Ashapurna Dash	Indian writings, Women writing, Linguistics
3	Mr. Prasanta Barla	HR & Marketing
4	Dr. Prasanta Ku. Padhi	Black American writing, Women writing

DEPARTMENT OF INFORMATION TECHNOLOGY



2. About the Department:

In recent years, the challenges before the educational institutes are manifold. It will have to cope with fast changes in technology simultaneously, training more students with adequate information with less availability of financial support for expansion and excellence.

To meet these challenges, the University introduced a new 4-year B.Tech. Course in Information Technology which is the latest emerging area in the present generation. The course was duly approved by AICTE and offered by the University from the academic session 2003-2004 on self financing basis. Presently, the department offers the following courses.

- B.Tech. degree in Information Technology (IT)
- M.Tech. degree in Information & Communication Technology (ICT)
- M.Tech. degree in Computer & Information Technology (CIT)
- Ph.D. (Engg.) Programme in Information Technology

MISSION

- 1. To provide quality education to the students to have a clear, concise conceptual understanding of the basic theories and principles of the subjects.
- 2. To provide best in class learning ambience to enhance the logical & analytical skills, and to prepare the students for higher studis, research and continuous contribution to technical field.
- 3. To provide exposure of latest tools and technologies in the area of engineering and technology to provide sustainable and cost effective solutions.
- 4. To allow students to work in team to explore their leadership Quality, Interrelationship skills and interest to their full intellectual potential and ability.
- 5. To create socially responsible citizens having ethical students.

VISION

The Department of Information Technology aspires to emerge as a center of scholastic excellence in the field of academic and research as in to meet the global requirements through imparting quality technical education, research expertise and ethical values in a direction that would inspire and encourage students to generate value based output to the society government, industry and academia in terms of technical and professional expertise, skill sets, creativity with a blend of leadership and entrepreneurial expertise.

Faculty Details:

	Name	Qualification	Specialization
ASS	SOCIATE PROFESSORS		
1.	Dr. Himanshu Sekhar Behera	M.E., (N.I.T, Rourkela) Ph.D. (B.P.U.T, RKL)	Data Mining, Computational Intelligence, Soft Computing & Evolutionary Computation, Pattern Recognition, Distributed System
2.	Dr. Manas Ranjan Senapati (H.O.D)	Ph.D (BPUT)	Data Mining, Big data Analysis, Pattern Analysis, Clustering, Classification.
3.	Dr. Pradip Kumar Sahu	B. E. (VSSUT, Burla), M. E. (Jadavpur University), Ph. D (IIT Kharagpur)	Embedded Systems, VLSI, NoC, SoC, Computer Architecture, Microprocessor
4.	Dr. Satyabrata Das	B.E, M.Tech., Ph.D, MBA (Systems)	Information & Communication Technology
ASS	SISTANT PROFESSORS		
5.	Dr. D. Chandrasekhar Rao	B. Tech. (BPUT, Rourkela), M.Tech.(BPUT, Rourkela) Ph. D. (VSSUT, Burla)	Peer to Peer Network, Theory of Computation, Compiler Construction, Computer Network, Cryptography, Soft Computing, Robotics

6.	Mr. Kishore Kumar Sahu	B.Tech, (BPUT), M.Tech. (BPUT)	Machine Learning, Data Mining, Computational Intelligence, Formal Languages, NLP,
7.	Ms. Sasmita Behera	B.Tech (U.C.E, Burla), M. Tech (NIT Rourkela)	Cloud Computing Computer Organization and Architecture, Computer networking
8.	Mr. Sujaya Kumar Sathua	B. Tech. (VSSUT Burla), M. Tech. (NIT Rourkela)	NLP, Text mining and image processing
9.	Mr. Gyanaranjan Shial	B. Tech (VSSUT, Burla), M. Tech. (IIT Bombay)	Data Mining, Soft Computing, Information Retrieval, Pattern Recognition
10.	Dr. Pradipta Kumar Das	B.Tech., (North Odisha Univ.), M.Tech (Jadavpu University) Ph.D. (VSSUT, Burla)	_
11.	Ms. Gargi Bhattacharjee	B.Tech (BPUT), M.E (BIT Mesra)	Software Engineering, Computer Graphics and Cryptography
12.	Mr. Atul Vikas Lakra	B. Tech. (UCE Burla), M. Tech. (MNITAllhabad)	Cloud Computing
13.	Mr. Suresh Kumar Srichandan	B.Tech (UCE, Burla), M.Tech (VSSUT)	Computer Networks
14.	Dr. Kshiramani Naik	B. E. (UCE, Burla), M. Tech. (NIT Rourkela), Ph. D. (IIT Dhanbad)	Image Processing
Technic	eal Staff Details:	Tin Di (III Dilanouu)	
	ame Ir. Devi Prasanna Kanungo	Designation Junior Instructor	Qualification B. Tech. (BPUT), M. Tech. (VSSUT Burla)
M	Ir. Sujit Mohapatra	Junior Instructor	MCA (Utkal University) (UGC-NET Qualified)

5.

6. Support Staff:

NameDesignationMr. Pravat Kumar SwainOffice AssistantMr. Dolamani SwainOffice AttendantMr. Ratha SendriaSweeper

7. Courses Offered:

(a) B.Tech. in Information Technology

(b) M.Tech. Spec: Information & Communciation Technology (ICT)

(c) M.Tech. Spec : Comp. & Information Technology (CIT)

(d) Ph.D. (Engg.)

8. Laboratory Details:

Sl.No.	Name of the Lab	Major Equipment	Research Facilities
1.	Computing Lab - II	28 Nos. of HP Intel Core i7 @3.4 GHz, 4 GB DDR3 RAM, 500 GB 7200rpm HDD, Windows 8 Professional OS (406 G1) desktops Server: 01 Number Software: IBM Rational Rose Matlab-2019a	
2.	Simulation Laboratory	0 Nos. of Intel Core i7 processor under Windows 8 Platform Server: 01 Number	Microprocessor& Microcontroller, Modeling and Simulation& Database
3.	M.Tech. & Research Laboratory	20 Nos. of HP ALL in one system	Research and M.Tech. dissertation
4.	Advanced Computing Laboratory (New Laboratory)	30 Nos. of HP Desktop 406- MT-i7 processor 4 GM RAM, 500 GB HDD 15 Nos. of IoT kits	





Computing Laboratory – II

Simulation Laboratory

9. Details of Research area of faculty member and awards / distinctions

SL. NO.	NAME OF FACULTY	DESIG- NATION	SPECIALIZATION	AWARDS/DISTINCTION
1	Dr.H.S.Behera	Associate Professor	Data Mining Computational Intelligence Soft Computing & Evolutionary Computation Pattern Recognition Distributed System	Distinguished Scientist Award (Nomination code RA16ENNC829 and the Award Code - EN/DSA/Data Mining/AAP - III.) Vide F. No VIF/INV/ARM/2016 (AAP-II) Nov 11, 2016at Annual Research Meet-ARM 2016 (for development and innovation in the areas of Research and Development) by Venus International Foundation, (Estt. u/s Indian Trusts Act 1882 /ISO 9001:2008 Certified), Chennai, Tamil Nadu- 600088. Listed in 32nd Edition (2015 32nd Edition). of Who's Who in the World 32nd Edition, "Marquis Who's Who" USA. VIP Number: 36823026

2	Dr.ManasRanjanSe napati	Associate Professor	Data Mining Big data Analysis Pattern Analysis Clustering Classification.	Fellow of the Institution of Engineers India, 2015
3	Dr.Pradip Kumar Sahu	Associate Professor	Embedded Systems VLSI NoC SoC Computer Architecture Microprocessor	
4	Dr.Satyabrata Das	Associate Professor	Distributed System Mobile Computing & Networks Real Time Systems Fault Tolerant Computing	Best Teacher Award by ISTE- 2014 (Odisha, BBSR Chapter) SandeepMohapatra Memorial Award- 2016. The Institution of Engineers(India), Odisha State Centre, Bhubaneswar
5	Dr. D. Chandrasekhar Rao	Assistant Professor	Peer to Peer Network Computer Network Soft Computing Robotics	Awarded by Wipro Technologies "In pursuit of Excellence in Engineering Education through Innovation" in 2011.
6	Mr. Kishore Kumar Sahu	Assistant Professor	Data Mining Computational Intelligence Formal Languages NLP Cloud Computing	
7	Ms.SasmitaBehera	Assistant Professor	Computer Organization and Architecture Computer networking	
8	Mr.Sujaya Kumar Sathua	Assistant Professor	NLP, Text mining and image processing	IEEE brand ambassador 2018
10	Mr.GyanaranjanShi al	Assistant Professor	Data Mining, Soft Computing, Information Retrieval, Pattern Recognition	
10	Dr.Pradipta Kumar Das	Assistant Professor	Machine Intelligent and Computer Vision	

			Emotional Intelligent Robotics Video processing	
11	Ms.GargiBhattachar jee	Assistant Professor	Software Engineering Computer Graphics and Cryptography	
12	Mr.AtulVikasLakra	Assistant Professor	Cloud Computing	
13	Mr. Suresh Kumar Srichandan	Assistant Professor	Computer Networks	
14	Dr.KshiramaniNaik	Assistant Professor	Image Processing	

10. Publications

		Till 2018	2019	
Conferences	International	16	04	
Comerences	National			
Journal	International	35	14	
Journal	National	02		
Book	International		02	
DOOK	National			

DEPARTMENT OF MATHEMATICS

1. About the department:

The department was established in 1956. Since then it has always shared the vision of the University in striving for excellence in research and teaching activities and has succeeded in this endeavour to a large extent. Over the years, the department has evolved as one of the premier departments in the Odisha State providing excellent teaching and research in Mathematics.

The department offers M.Sc., M. Phil, Ph.D. programmes besides its basic responsibility of offering Mathematics course to B.Tech. and M.Tech. students.

The vibrant academic environment is nurtured by strongly motivated well qualified faculties and provides an opportunity to pursue research in front line areas of basic sciences as well as in interdisciplinary areas of science and technology. In the coming decade, apart from the existing areas, the department intends to develop areas related to mathematical aspects of computing science in all its manifestations.

Our vision is to foster in mathematical education and research, technical excellence, well poised between abstraction and application.

2. Faculty Details:

	Name	Qualification	Specialization
PR	<u>OFESSOR</u>		
1.	Dr. Jayaprakash Panda	M.Sc., Ph.D. (Utkal)	Fluid Dynamics, Numerical Analysis
ASS	SOCIATE PROFESSORS		
2.	Dr. Mahendra Kumar Jena Dr. Susanta Kumar Paikray (H.O.D)	M. Sc. (Sambalpur Univ.), Ph.D (IIT Kanpur), PDF(IIT Bombay) IHPC Singapore) M. Sc. & M. Phil. (Ravenshaw Univ.); Ph. D (Berhampur Univ.)	Spline Analysis, Wavelet Analysis, Computer Aided Geometric Design Summability Theory, Fourier Series, Operations Research, Graph Theory.
ASS	SISTANT PROFESSORS		
4.	Dr. Saroj Kumar Padhan	M.A. (Sambalpur Univ.), M.Phil (Sambalpur Univ.), Ph.D (IIT Kharagpur)	Optimization, Functional Analysis, Fractional Calculus
5.	Dr. Itishree Nayak	P.G. (Utkal Univ.), M.Phil (Utkal Univ.) Ph.D (Utkal Univ.).	Numerical analysis,numerical solution of partial differential equation
6.	Dr. Ashok Kumar Sahoo	M.Sc.(Maths), M.Phil(Maths), M.Tech., Ph.D (Utkal Univ.)	Complex Analysis

7.	Dr. Smrutiranjan Mohapatra	M.Sc. (S.U.) Ph.D (IIT Guwahati), PDF (IISc. Bangalore)	Interaction of waves with submerged structure(s), Water wave problems with floating elastic plate(s), Flows in porous media
8.	Mr. Niran Meher	M.Sc. (IIT Bombay)	Functional Analysis, Numerical Analysis
9.	Dr. Amit Ku. Sharma (TEQIP Sponsored)	M.Sc. (Utkal University) Ph.D. (IIT Delhi)	Algebrain coding Theory
10.	Dr. Dillip Kumar (TEQIP Sponsored)	M.Sc. Ph.D (BHU)	Fluid Dynamics

3. Courses Offered:

- (a) **B.Tech.**: Mathematics I, Mathematics II, Mathematics III, Mathematics IV (Common to all Branches)
- (b) MCA: Discrete Mathematics (1stsemester), Quantitative Techniques (2ndSemester)
 (c) M.Sc.: 2 year M.Sc. in Applied Mathematics, 5 Year Integrated M.Sc. in Mathematics
- (d) M.Phil: 1 year M.Phil in Mathematics
- (e) **Ph.D.**: Ph.D in all areas of Mathematics

Research Methodology, a compulsory subject for Ph.D. Course work for the research scholars of all branches of science and engineering is being offered by Mathematics department.

4. Details of research areas of faculty members :

	Name of the Faculty member	Research Area
1	Prof. J. Panda	Fluid Dynamics, Numerical Analysis
2	Dr. M.K. Jena	Spline Analysis, Wavelet Analysis, Computer Aided Geometric Design

3	Dr. S.K. Paikray	Fourier Series, Graph Theory, Optimization
4	Dr. S.K. Padhan	Functional Analysis, Optimization, Fractional Calculus
5	Dr.(Mrs.) I. Nayak	Computational Fluid Dynamics
6	Dr. A.K. Sahoo	Complex Analysis
7	Dr. S.R. Mohapatra	Integral Equation, Special Function

5. Sponsored Research Projects (Ongoing):

Use of Integral equation on Problems of Scattering of Waves in a two dimensional Fluid Principal investigator

– Dr. S.R. Mohapatra

Sponsoring Agency – DST SERB

DEPARTMENT OF MECHANICAL ENGINEERING

1. About the Department:

Department of Mechanical Engineering came into existence in 1956 as one among three engineering branches of University College of Engineering Burla. Since its inception, the department has constantly focused in developing the academic excellence of the students in Mechanical Engineering and also in various research activities. Over the years, this department has produced eminent technocrats who are engaged in important positions all over the globe. Producing best graduates who proved themselves worthy to society, is one of the major strengths of the department. Students of this department are performing very well in competitive examinations such as GATE, GRE, CAT, UPSC etc. Students are placed in a number of responsible positions and many of them are pursuing their higher studies in prestigious institutes of the country like IISc Bangalore, IITs, NITs, IIITs, IIMs and abroad. Moreover, the Department has a rich pool of faculties with expertise in their respective areas who are engaged in large number of sponsored R & D projects and consultancy works. The curriculum of this branch is designed in such a manner that it covers the most recent trends in technology to keep pace with the international standards. This department has produced highly motivated professionals (around 4000) to serve the humanity both nationally and internationally, with excellence. So far, this branch has produced over 450nos. of M. Tech and 24 nos. of Ph.D. students. Currently two of the Master's degree specializations i.e., Machine Design & Analysis and Production Engineering, are NBA accredited by AICTE upto 2021.

Mission:

Mechanical Engineering Department of VSSUT Burla strives to impart quality education to the students with enhancement of their skills to make them globally competitive through:

- Maintaining state of the art research facilities to provide conducive environment to create, analyze, apply and disseminate knowledge.
- Fortifying collaboration with world class R&D organizations, educational institutions, industry and alumni for
 excellence in teaching, research and consultancy practices to fulfil 'Make In India' policy of the Government.
- Providing the students with academic environment of excellence, leadership, ethical guidelines and lifelong learning needed for a long productive career.

Vision:

To be recognized as a center of excellence in education and research in the field of mechanical engineering by producing innovative, creative and ethical mechanical engineering professionals for socio-economic upliftment of society in order to meet the global challenges.

2. Faculty Details:

	Name	Qualification	Specialization
PR(<u>DFESSORS</u>		
1.	Prof. Jaydev Rana	BE (HONS) (UCE BURLA), ME (HONS) (UCE BURLA) Ph.D(IIT Kharagpur)	Production Engg.
2.	Dr. Pusparaj Dash	B.Sc. (Engg.) (UCE Burla), M.Sc. (Engg.)(REC Rourkela) Ph.D (IIT Kharagpur)	Machine Design and Vibration
3.	Dr. Jyoti Ranjan Mohanty (HOD)	BE (IGIT, Sarang), ME (REC Rourkela), Ph.D (NIT Rourkela)	Machine Design; Fatigue & Fracture; Composite Material
ASS	SOCIATE PROFESSORS		
4.	Dr. Bibhuti Bhusan Pani	B.S. and M. S. (St. Petersburg State Polytechnical University, Russia), Ph.D (Engg.), IIT Kharagpur	Metal Forming, Powder Metallurgy
5.	Dr. Saroj Kumar Sarangi	B. E. (UCE Burla), M.Tech. (NIFFT Ranchi), Ph.D (IIT Kharagpur) Post Doc. Research (NCKU Taiwan)	CVD Diamond Coating, High Speed Machining, Joining metal- Ceramics
6.	Dr. Sumanta Panda	B.Tech (UCE Burla), M.Tech (IIT Delhi), Ph.D- Sambalpur University	Robot Mechanism, Condition Monitoring, Bearing Dynamics
7.	Dr. Prasanta Kumar Pradhan	BTech (UCE Burla), MTech (IIT Guwhati), Ph.D (IIT Kharagpur)	Machine Design
8.	Dr. Chitta Ranjan Deo	B.E.: (OEC Bhubaneswar), ME (REC Rourkela), Ph. D (NIT Rourkela)	Composite Material
9.	Dr. Punyapriya Mishra	B.Tech (UCE, Burla), M.Tech (NIT Rourkela), Ph.D - NIT Rourkela	Production Engg.
10.	Dr. Padmanav Dash	BE (JIET Cuttack), ME (IIEST, Shibpur), Ph.D (IIT Kharagpur)	Solid Mechanics
11.	Dr. Sarojrani Pattnaik	B.Tech (KIIT University), M.Tech (CET Bhubaneswar, Ph.D.(IIT Roorkee)	Production Engineering

	Dr. Prakash Chandra Mishra Dr. Aurovinda Mohanty	BE (IGIT Sarang), M.Tech (IIT Delhi), Ph.D (Loughborough University), Post Doc.l; Loughborough University B.E. (IGIT Sarang), ME (IIT Kanpur), Ph.D. (IIT, Khargpur)	Engine Tribology; Emission; Friction Modeling Fluid & Thermal Science
ASS	SISTANT PROFESSORS		
14.	Dr. Pandaba Patro Reader	B.E.(Berhampur University), M.Tech (IIT Guwahati), Ph.D (IIT Kharagpur)	Thermal (Heat Power)
15.	Dr. Hrushikesh Barik Reader	B.Tech (UCE Burla), M.Tech (UCE Burla), Ph.D (IIT Bombay)	Thermal Engineering (Gas dynamics, Computational Fluid Dynamics)
16.	Mr. Debasish Tripathy	BE, (OEC,Bhubaneswar), M.Tech. (IIT (BHU)	Machine Design
17.	Mrs. Sunita Singh Naik	B. Tech.(UCE, Burla), M.Tech. (VSSUT, Burla),	Production Engg.
18.	Dr. Swagatika Mishra	B.Tech. (BPUT, Rourkela), M.Tech (BPUT, Rourkela), Ph.D (NIT Rourkela)	Industrial and Production Engg.
19.	Dr. Prabir Kumar Jena	B. Tech (OEC, Bhubaneswar), M.Tech (N.I.T Rourkela), Ph.D. (NIT, Rourkela)	Thermal Engineering
20.	Mrs. Janaki Dehury	B. Tech (VSSUT, Burla), M.Tech (NIT, Rourkela)	Production Engineering
21.	Dr. Pragyan Paramita Mohanty	B.Tech (OSME, Keonjhar), M. Tech. (JNTU, Hyderabad, Ph.D (NIT Rourkela)	Manufacturing Science
22.	Dr. Debasmita Mishra	B.Tech (JITM, Parlakhemundi), M.Tech (UCE Burla), Ph.D (NIT,Rourkela)	Thermal Engineering
23.	Mr. Johnson B Lakra	B.Tech (VSSUT Burla), M. Tech (IIT Madras)	Mechanical Design
24.	Dr. Mihir Kumar Sutar	B.Tech (IGIT Sarang), M.Tech (NIT Rourkela), Ph.D (IIT Roorkee)	Machine Design, Robotics
25.	Dr. Madhusmita Pradhan	B.Tech (OSME, Keonjhar), M.Tech. (VSSUT, Burla), Ph.D. (VSSUT, Bural)	Machine Design and Analysis
26.	Mr. Layatitdev Das	B.Tech (CET, Bhubaneswar), M.Tech (NIT Rourkela)	Machine Design and Analysis

27.	Mr. Shasanka Sekhar Dalai	B.Tech (IGIT, Sarang), M.Tech (IIT Madras)	Applied Mechanics
28.	Dr. Priyadarshi Tapas Ranjan Swain	Ph.D. (NIT, Rourkela)	Thermal Engineering
29.	Mr. Santosh Kumar Sahu	B.Tech (BPUT), M.Tech (NIT Rourkela),	Production Engineering
30.	Dr. Kiran Kumar Ekka	B.Tech (UCE, Burla)	
		M.Tech (NIT, Hamirpur)	CAD CAM
		Ph.D (NIT, Hamirpur)	
31.	Dr. Abhilash Purohit	B.Tech. (PKAC Bargarh)	Production
		M.Tech. (NIT Rourkela)	Engineering
		Ph.D (NIT Rourkela)	
32.	Mr. Swgat Dwivedi	B.Tech. (VSSUT Burla)	Production
		M.Tech. (IIT Guwahati)	Engineering

3. Technical Staff Details:

Sl No	Name	Qualification	Specialization
1.	Mr. Bijaya Kumar Bhoi	Diploma	Machine Design/Production Engg.
2.	Mr. Ashok Samal	Diploma	Machine Design
3.	Mr. Sushant Kumar Acharya	Diploma	Thermal Engineering
4.	Mr. Guptanchal Rath	M.Tech.	Thermal Engineering
5.	Mr. Akshaya Kumar Meher	ITI	Senior Steno
6.	Mr. Jashi Bhushan Pradhan	Diploma	Thermal Engineering
7.	Mr. Sanjay Jagat	ITI	Mechanical Engineering

4. Support Staff Details

Sl No	Name	Qualification
1.	Mr. Brundaban Rath	Senior Steno
2.	Mr. Pramod Kumar Bhoi	Printer
3.	Mr. Jhatu Sahu	Peon
4.	Mr. Suresh Chandra Nayak	
5.	Mr. Bhabani Shankar Barik	Peon
6.	Mr. Maheswar Haripal	Peon

5. Courses offered:

SL. No.	Program	Degree/Specialization	Intake	Year Establishment	of

1	B.Tech	Mechanical Engg.	120	1956	
2		Machine Design & Analysis	18		
3	M.Tech.	Production Engineering	18	1972	
4	_	Heat Power Engg.	18		
5	Ph.D.	Mechanical Engineering	-	2010	

6. Laboratory Details:

Sl. No.	Name of the Laboratory	Major Equipment
1	Dynamics and Vibration Lab	Vibration Monitoring Equipment
2	Material Testing Lab	Universal Testing Machine- Instron, Piezo Electric Force Dynamometer CVD Diamond Coating Set-up Wear and Friction Monitor
3	Production Engineering Lab	Optical Inverted Metallurgical Microscope- Microprocessor Based Temperature Controlled Sintering Furnace Tallysurf
4	CAD/CAM Lab	MSC Nastran Patran
5	Heat Transfer Lab	Emissivity Measuring equipment
6	Thermal Engineering Lab	Cochran Boiler
7	Hydraulics and Fluid	Pelton Wheel, Francis Turbine,

	Machinery Lab	Kaplan Turbine, Centrifugal pump, Resiprocating pump
8	Heat Power Lab	Rusten Diesel Engine
9	Refrigeration and Air conditioning lab	RAC tutor
10	Metrology Lab	Profile projector Autocollimator, Angle Decker Optical Flat





Materials Testing Lab.

Production Engg. Lab.

7. Details of the Research Area of Faculty Members :

Sl. No	Name of the Faculty	Research Area		
1	Prof. Jaydev Rana	Production Engg.		
2	Prof. P.R. Dash	Mechanical Vibration & condition monitoring		
3	Dr. J. R. Mohanty	Machine Design		
4	Dr. B. B. Pani	Production Engg.		
5	Dr. S. K. Sarangi	Production Engg.		
6	Dr. S. Panda	Robotics		
7	Dr. P. K. Pradhan	Machine Design		
8	Dr. C. R. Deo	Machine Desigh		
9	Dr. P. Mishra	Production Engg.		

10	Dr. P. Dash	Machine Design				
11	Dr. S.R. Pattnaik	Production Engg.				
12	Dr. P.C. Mishra	Engine Tribology; Emission; Friction Modeling				
13	Dr. A. Mohanty	Thermal Engg.				
14	Dr. P. Patro	Thermal Engg.				
15	Dr. H. K. Barik	Thermal Engg.				
16	Mr. D. Tripathy	Machine Design				
17	Mrs. S. S. Naik	Production Engg.				
18	Dr. P. K. Jena	Thermal Engg.				
19	Dr. S. Mishra	Production Engg.				
20	Miss J. Dehury	Production Engg.				
21	Dr. D. Mishra	Thermal Engg.				
22	Mrs. P. P. Mohanty	Production Engg.				
23	Mr. J. B. Lakra	Machine Design				
24	Mr. M. K. Sutar	Robotics & Machine Design				
25	Ms. M. Pradhan	Machine Design				
26	Mr. L. D. Das	Machine Design				
27	Mr. S. S. Dalai	Applied Mechanics				
28	Dr. Priyadarshi Tapas Ranjan Swain	Thermal Engg.				
29	Dr. Santosh Kumar Sahu	Production Engg.				
30	Dr. Kiran Kumar Ekka	CAD/CAM				
31	Dr. Abhilash Purohit	Production Engg.				
		Production Engg.				

Mr. Swgat Dwivedi

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8. Publication of the Department: In National / International Conferences, Journals, Books, Book Chapters etc.

Year	No. of Publications
2016	22
2017	45
2018	62
2019	27 (till date)

9. Sponsored Research Projects:

Sl. No.	File No.	Name of the Funding Agency & Scheme	Title	PI/Co- PI	Duration (years)	Amount Sanctioned (In Lakhs)
1.	SR/FST/ETI- 208/ 2007,dated 31st December 2008	DST (FIST)- 2008	Development of Mechanical Engineering Laboratory	HOD	5.0	67.57
2.	8023/BOR/RID /RPS-142/2008- 09,dated 12 th March 2009	AICTE (RPS)- 2009	Biasing and Nucleation Study by addition of metalPowders on growth ofdiamond by Hot Filament Chemical Vapor Deposition (HFCVD) method on cemented carbide inserts	Dr. S. K. Sarangi	3.0	6.49
3.	8023/RID/RPS -18(POLICY- IV)(GOVT)/201 1-12, dated 20 th April 2012	AICTE (RPS)- 2012	Development of nano/ultranano diamond Coating on cemented carbide inserts by Hot Filament Chemical Vapor Deposition (HFCVD) method	Dr. S. K. Sarangi	2.0	14.10
4.	22(0628)/13/E MR-II, dated 26 th February	CSIR- 2013	Development of NCD andUNCD diamond coatings and their characterization on	Dr. S. K. Sarangi	3.0	21.92

	2013		cemented carbide inserts			
5.	ERIP/ER/1203 119/M/01/1529	DRDO- 2014	Development of ultrasonicabsorbent composite material using date palm leaf fiber	Dr. J. R. Mohanty	3.0	7.385
6.	MRP-MAJOR- MECH-2013- 7846	UGC- MRP- 2013	Development of a high vacuum brazing furnace for joining metals to ceramics	Dr. S. K. Sarangi	3.0	14.97
7.	AICTE, TEQIP- III CRS Scheme, Govt. of India	AICTE- CRS (2019)	Composites for Heat Shielding Components in Air craft	Dr. A. Purohit, Dr. D. Mishra	3.0	19.48

10. Achievements of the Department:

Since its inception the Department itself has proven its sky-rising worthiness by producing Engineers in a large number for the service to the society, who have proven their credibility in different fields. A brief achievement of both the faculties and students of the Department, in different scenario is being represented herewith;

• Faculty Achievements:

Currently the department has total 30 number of highly qualified faculties from prestigious Institutes of the Country (03 Professors, 09 Associate Professors and 18 Assistant professors). Their achievements are enlisted herewith in the form of their enormous publication number, and awards/honors being received by them.

• Student Achievement:

Though there are many achievements by the students, a few are enlisted below:

- a. Er. Manas Bhadra (B. Tech. 2009) is actively associated with Mars Mission of ISRO
- b. Mr. Sarthak Samal (B. Tech. 2015) has been selected as Port Engineer in Ukraine Anglo Eastern Company with salary of Rs. 21.00 lakhs per annum.
- c. T. Tejaswini (Robotics Club): AIR-1 IN National student's space Challenge-2018 at IIT, Kharagpur
- d. Mrs. Smaranika Nayak awarded M. Tech Gold medal in 2012
- e. Miss. Rasmita Parida awarded M. Tech Gold medal in 2013
- f. Miss Silva Acharya awarded best graduate in 2012

- g. Miss Subhasmita Nayak awarded best graduate in 2015
- h. Miss Ananya Satpathy awarded best all rounder in 2015
- Miss Saswati Chand has been selected for MS programme (2016) in Industrial Engg., North Carolina State University, USA

• SAE Club (Mechanical Engineering) Achievements:

The SAE Club was established in the year 2011 and since then has never looked back. Few of its achievements are as follows:

- ➤ AIR 3 in Design Event in Supra 2018
- ➤ AIR 4 in Cost Event in Supra 2018
- > AIR 9 in overall Supra 2018
- ➤ AIR 15 in Design Event in Formula Bharat 2018
- ➤ AIR 14 in Quiz Event in Formula Bharat 2018
- ➤ AIR 36 in overall in Formula Bharat 2018
- ➤ AIR 4 in Design Event in FFS 2019
- ➤ AIR 3 in Cost Event in FFS 2019
- ➤ AIR 7 in overall in FFS 2019

DEPARTMENT OF METALLURGY & MATERIALS ENGINEERING

1. About the Department :

The Department of Metallurgical & Materials Engineering (MME) was established in 2013. This department is devoted to the designing, creation and fundamental understanding of materials that are capable of enhancing the human experience.

At present, the Department offers a 4 - year B. Tech. programme, M.Tech. in "Industrial Metallurgy", PhD in "Metallurgical & Materials Engineering" and a 4 - year B. Tech Executive programme for industrials employees in collaboration with Department of Production Engineering as a course name "Manufacturing and Process Engineering". On completion of this courses the student gains skill to get into a rewarding career in industries, academic, government and private sectors like SAIL, VIZAG Steel, Hindalco, Balco, Vedanta, Tata Steel, TRL, Bhushan, Accenture, TCS, Wipro, Infosys, Cognizant and various CSIR laboratories such as IMMT (BBSR), NML (Jamshedpur) etc. The main focuses of the department activities are multi-directional with an emphasis on both teaching and research. Currently, the department is setting up various laboratories involved in undergraduate courses. The faculties of this department have completed their M. Tech and PhD degrees from various IITs, NITs and foreign universities. Since establishment of department, it has 8 laboratories with good number of equipment. The current approach of our department is to develop each and every laboratory with multifunctional objectives. Presently, aiming to improve and share the knowledge of the different course with the better understanding and at the same time to integrate the research facility with consultancy. Department is also engaged in solving real industrial problem of Aditya Aluminium. The department is developing liaison with research labs; mandating industry partners and extending entrepreneurship challenges and initiating the interdisciplinary research. The department has introduced elearning courses / lecture notes for students, to understand the subject in depth. The department has an idea to create internship programs for students of other university / college by developing the various laboratories. The motivation of our department is to improve knowledge by interacting and pursuing research students with mutual exchanging ideals. The department aims in becoming a globally prominent department in the field metallurgy & materials engineering, and a Centre of excellence. Mission of the department is to promote student achievement and preparation for global competitiveness by fostering Educational excellence in the field of materials and process and to carry out quality research of national and global relevance.

2. Faculty Details:

1.	Dr. Sushant Kumar Badjena (H.O.D) ASSISTANT PROFESSORS	B.E. (I.G.I.T Sarang), M. Tech. (IIT Kanpur), Ph.D. – KAIST,South Korea	Mechanical & Physical Metallurgy, Metal Forming, Severe Plastic Deformation (SPD), Finite Element Method (FEM)
2.	Mr. Avala Lava Kumar	B.E. (MGIT,Hyderabad), M.Tech. (NIT,Durgapur)	Physical Metallurgy & Mechanical Metallurgy
3.	Ms. Suneeti Purohit (On leave for Ph.D. at Swinburne University of Technology, Australia)	B.Tech (IGIT,Sarang), M.Tech (IIT,Kharagpur & KIT, Karlsruhe)	Metallurgical and Materials Engineering
4.	Mr. Dinesh Kumar Mishra	B.Tech (IGIT,Sarang), M.Tech (IIT,Kharagpur),	Metallurgical and Materials Engineering
5.	Mr. Gautam Behera	B.Tech. (IGIT,Sarang) M.Tech (IIT,Kharagpur)	Metallurgical & Materials Engineering
6.	Mr. Nilakantha Sahu	B.Tech (VSSUT), M.Tech (IIT,Roorkee),	Metallurgical and Materials Engineering (Corrosion Engineering)
7.	Ms. Subhadra Sahoo	B.Tech (IGIT,Sarang), M. Tech (Jadavpur University),	Metallurgical and Materials Engineering
8.	Dr. Renu Prava Dalai	B.Tech (IGIT,Sarang), M.Tech (NIT,Rourkela), Ph.D. (IIT,Kharagpur)	Metallurgical and Materials Engineering
9.	Dr. Manila Mallik	B. Tech (IGIT, Sarang),M. Tech (NIT,Rourkela),PhD (IIT,Kharagpur)	Metallurgical and Materials Engineering
10.	Mr. Gourahari Behera	B. Tech (NIT,Rourkela), M. Tech (IIT, Kanpur)	Materials Science & Engineering

Qualification

Name

Specialization

3. Courses offered:

B.Tech. in Metallurgy & Materials Engineering



Physical Metallurgy Lab.

4. Details of research area of faculty members & Awards / Distinction :

S.No	Name of the faculty	Research area	Awards/Distinctions
1	Dr. S.K. Badjena	-	Nijhawan Award for Best Technical Paper, 2006, NML, CSIR, India Tamotia Award for Best Publishedpaper on Environmental issues related to Mineral processing IIME, 2007, India
2	Mr. A.Lava kumar	Superalloys, Aluminum alloys, Steels, Archeometallurgy, Nano materials	1st Prize in metallurgaphy contest in NCPCM 2015 at NIT, Rourkela. Visiting research fellow at IIT, Kanpur (2015). Best oral presentation in NMD ATM, 2015 2nd Prize in poster presentation in CSIR-NML Jamshedpur, 2015
3		Nanoscience & Nanotechnology, Electronic materials, Physical metallurgy	

4	Mr. Dinesh Kumar	High entropy alloy, Simulation and modeling, Mechanical alloying, NMC, Powder metallurgy, process metallurgy, Iron & Steel- heat treatment and characterization	Best poster presentation in MRS-2017 at VSSUT, Burla
5		Extractive metallurgy, physical	Second prize in poster presentation in (NCPCM-2015) at NIT, Rourkela
6.	Mr. Nilakantha Sahu	Welding metallurgy, Friction stir welding, High temp. oxidation and corrosion	
7.	Ms. Subhadra Sahoo	Corrision Engg (Steel), Heat treatment in EN31 Steel, Mechanical Metallurgy	First prize in paper presentation in symposium commission in RCC structure in Mumbai. Best poster presentation in(INCAL-2019 at BBSR
8.	Dr. Renu Prava Dalai	Steel matrix composite materials, TMP of high Mn steel, Tribology and corrosion study of steel and composite, synthesis of MMC by powder metallurgy	in composite 2010, III, Kharagnur
9.	Dr. Manila Mallik	Lead-free solder, Nonoindentation creep of lead free solder, synthesis of nano powder, commission and tribalogy composited materials.	Institute silver medal in M.Tech
10.	Mr. Gourahari Behera	Solid state welding Nano alloy synthesis and characterization, solidification process	

DEPARTMENT OF PHYSICS

1. About the department:

The Department of Physics was established in 1956. Since the inception of the University, the department is contributing to the academic and administrative development of this institute. The department offers Master Degree Programme in Applied Physics since 2010, Integrated M.Sc., and M.Phil. programmes since 2014. Research in the department ranges across the mostchallenging problems in theoretical and experimental condensed Matter Physics, (Multiferroics, Functional materials, glass ceramics) Liquid Crystals, Nuclear and particle physics, Computational Physics of Complex Systems, Ultrasonics, and Plasma Physics etc. So far seven persons have completed their Ph. D work. Thedepartment plans to offer various elective courses for both PG and UG programmes in specific topics on emerging, and multidisciplinary areas in future.

2. Faculty details:

	Name	Qualification	Specialization
<u> </u>		B.Sc. (Engg.) (UCE, Burla),	Computer Vision &
PRO	<u>OFESSORS</u>	M.Tech (III, KGP), Ph.D (Jadavpur University)	Image Processing
1.	Prof. Piyush Ranjan Das	M.Sc. (Revenshaw), Ph.D. (IIT Kharagpur)	Condensed Matter Physics
2.	Prof. Manas Ranjan Panigrahi	Ph.D (NIT, Rourkela)	Experimental Condensed Matter Physics
ASS	SOCIATE PROFESSORS		
3.	Dr. Akhyaya Kumar Pattanaik	M.Sc. (B.U.), Ph.D. (IIT, Guwahati)	Solid State Physics (Experimental)
4.	Dr. Ganeswar Nath (H.O.D)	M.Sc., M.Phil., Ph.D. (Ultrasonics) (Ravenshaw)	Ultrasonic (Experimental), Plasma Physics(Theoretical)
5.	Dr. Santanu Sengupta	M.Sc., Ph.D. (IIT Kharagpur)	Computational Physics
6.	Dr. Sunanda Kumari Patri	M.Sc. (B.U.), M.Phil. (B.U.), Ph.D. (IIT Kharagpur)	Condensed Matter Physics

ASSISTANT PROFESSORS

7.	Mr. Sidheswar Behera	M.Sc. (B.U.)	Materials Science
8.	Dr. P. Lakshmi Praveen	M.Sc., M.Phil., Ph.D.	Condensed Matter Physics
9.	Dr. Soumya Saswati Sarangi	M.Sc , Ph. D (JNCASR, Bangalore), Post-doc (IISc., IOP)	Computational Condensed Matter Physics
10.	Dr. Jasvinder Pal Singh Virdi	Ph.D (Panjab Univ, Chandigarh)	Nonlinear Dynamics
11.	Dr. Parbati Naik	M.Sc (Utkal), M.Phil (Utkal)	Condensed matter Physics
12.	Dr. Jhasaketan Bhoi	M.Sc., M.Phil., Ph.D.	Nuclear Physics
13.	Dr. Mohapatra Prakash K. Sahoo	M.Sc , PhD (IIT Kharagpur), Post-doc (Zhejiang University)	Condensed Mater Physics (Experimental)

3. Courses offered:

- □ **UG**: B.Tech.
- □ **PG**: M.Sc. (Applied Physics), Integrated M.Sc.
- ☐ **M.Phil**. (Physics)
- □ **Ph.D**. (Physics)

4. Laboratory details:

S. No.	Name of the Lab	Major Equipments	
1.	M. Sc. & Integrated	1.	Lattice Dynamics Kit
	M. Sc. Labs	2. Fourier Analysis Kit	
		3.	Hall Effect Set Up
		4.	Planck's Constant Kit
		5.	Energy Band Gap Setup
		6. Photodiode Characteristics Kit	
		7. Optical Fiber Kit: Estimation of Numerical Aperture	
		8.	Calculation of e/m by Thompson's Method
		9.	Michelson's Interferometer
		10.	B-H Curve Kit
		11.	LED & Laser DiodeCharacteristics
		12.	GM Counter

		13.	Curie Temperature Setup	
		14.	Four Probe Method	
		15.	Fermi Energy Kit	
		16.	Stefan's Constant Kit	
		17.	Solar Cell Apparatus	
		18.	ESR Spectrometer	
		19.	Young's Modulus by Searle's Method	
		20.	Millikan's oil drop Experimental set up	
2.	B.Tech. Lab	1.	Determination of acceleration due to gravity	
		2.	Barton's Apparatus	
		3.	Determination of Thermal Conductivity with Lee's Apparatus	
		4.	Capillary Rise Method	
		5.	Newton's Rings Apparatus	
		6.	Determination of Grating Element	
		7.	Sonometer	
		8.	Characteristics of BJT	
3.	Research Labs	Adv	ranced Materials Laboratory	
		1.	Muffle Furnace (up to 1700°C)	
		2.	Tubular Furnace	
		3.	Planetory Ball Milling Machine	
		4.	Hydraulic Pressure	
		5.	Oven	
		6.	Vibrating Ball Milling Machine	
		7.	Sonicator	
		7. 8.		
		8.	Sonicator	
		8.	Sonicator Density Measurment Kit	
		8. <u>Ultr</u>	Sonicator Density Measurment Kit rasonics & Acoustics Laboratory	

5. Details of research area of faculty member, awards / distinction received:

S. No.	Name	Research Area	Awards/ Distinctions
1.	Dr. P. R. Das	Condensed Matter Physics, Materials Science	
		Widterlans Science	Nominated for world's who's
2.	Prof. M. R. Panigrahi	Experimental Condensed Matter Physics, Thin Film	who in 2012, 2015 Nominated for Top 100 scientist by CBS, England
3.	Dr.A. K. Pattanaik	Condensed Matter Physics, Materials Science	
4.	Dr. G. Nath	Ultrasonics, Plasma Physics	Dr.M.Pancholy Award-2013, Dr. Parthasarthi Award-2016 by Ultrasonic Society of India.
5.	Dr. S. Sengupta	Computational Quantum Mechanics	by Chrusome Society of India.
6.	Dr. S. K. Patri	Condensed Matter Physics	
7.	Mr. S. Behera	Materials Science	
8.	Dr. P. L. Praveen	Soft Condensed Matter Physics, Liquid Crystals	Young Scientist Award-2012 by Dr.K.V.Rao Scientific Society, Hyderabad.
9.	Dr. S. S. Sarangi	Computational Condensed Matter Physics	
10.	Dr. J. P. S. Virdi	Nonlinear Dynamics	
11.	Dr. J. Bhoi	Nuclear Physics Theory	
12.	Ms. Parbati Naik	Condensed Matter Physics	
13	Dr. M. P. K. Sahoo	Experimental Condensed Matter Physics	

6. Sponsored Research Projects (Ongoing):

S. No.	Title of the Project	Faculty Name	Funding Agency	Amount In Lakhs
1	Development of high temperature piezoelectric ceramics based on (1-x) Bi (Me□, Me□)O ₃ -x PbTiO ₃ Systems Project No.: SR/FTP/PS-63/2008	Dr A. K. Pattanaik	DST, New Delhi	20.28
2	Ultrasonic Characterisation of nanofluids for various concentration at different temperatures ProjectNo.F.20-1(28)/2012(BSR)	Dr. G. Nath	UGC, New Delhi	6.00
3	Development of ultrasonic absorbant composite material using date palm leaf fiber Project No.ERIP/ER/1203119/M/01/1529	Dr. G. Nath (Co-PI)	DRDO, New Delhi	7.38
4	Study of propagation of ultrasonic waves in solvent mixture used in preparation of natural fiber from agricultural wastes Project No. ERIP/ER/1203150/M/01/1559	Dr. G. Nath	DRDO, New Delhi	8.62

7. Other information of the Department: 19 Ph.D. Scholars

- 1. Ms. P. L. Deepti has been awarded TEQUIP- II fellowship for pursuing her Ph.D.
- 2. Ms. G. Biswal has been awarded Biju Pattnaik Research Fellowship for parscing.

DEPARTMENT OF PRODUCTION ENGINEERING



1. About the Department:

Manufacturing or Production, in its broadest sense, is the process of converting raw materials into useful products. It encompasses the design and manufacturing of goods using various production methods and techniques. Manufacturing is the backbone of any industrialized nation and its level of manufacturing activity is directly related to the economic health. Advanced Production Technology with computer controlled processes is the present day need of the manufacturing industries.

Production Engineering has emerged as an independent discipline catering to the global need. Thus, the department was started in the year 1996 with an annual intake of 30 with the following objectives and core values.

- ☐ To promote academic excellence.
- ☐ To raise the level of knowledge, competence and skills in the area of manufacturing engineering.
- ☐ Implementation of new curriculum and innovative instructional methods, such as self-paced learning, problem-solving projects, training in industry.
- ☐ To establish and expand research capabilities for students and faculty.
- Consulting projects that will serve industry and the community.
- Exposure and experience with advanced manufacturing technologies such as Robotics, FMS, CIM, Non-conventional machining etc.

Core production engineering subjects, topics on advanced production technologies, IT related subjects and topics on managerial skills are carefully designed and put in the course structure to produce industry ready professionals. The job opportunities lie both in core manufacturing sectors and IT sectors. Due to high rate of globalization and industrialization, the scope of employment for manufacturing professionals is vast and is ever increasing.

2. Faculty Details:

	Name	Qualification	Specialization				
PRO	<u>PROFESSORS</u>						
1.	Dr. Debadutta Mishra	B.Sc. (Engg.) (CET), M.Sc. (Engg.) (NIT, Rourkela) Ph.D (S.U.)	Production Engg.				
2.	Dr. Debabrata Dhupal SOCIATE PROFESSORS	B.E.(Utkal University), M.E (Jadavpur University) Ph.D(Engg), Jadavpur University DIBM (IGNOU)					
3.	Dr. Kamal Pal (H.O.D)	B.E (Jadavpur University), M.E (BEC, Kolkata),	Production Engineering				
4.	Dr. Arun Kumar Rout	Ph.D (IIT Kharagpur) B.E, M.Tech, Ph.D.,	Mechanical Systems Design				
5.	Dr. Nirmal Kumar Kund	B.Tech (IGIT, Sarang), M.Tech (IISc, Bangalore), Ph. D- (IISc, Bangalore)	Mechanical Sciences				
6.	Dr. Pankaj Charan Jena	B.E, M.Tech, (BPUT, Odisha) Ph.D (Jadavpur University).	Mechanical System Design.				
7.	Dr. Sudhansu Ranjan Das	B.E. (BPUT, Odisha), M.Tech. (KIIT University), Ph.D (NIT, Jamshedpur)	Manufacturing Engineering				
8.	Dr. Trupti Ranjan Mahapatra	B.E, M.Tech (UCE, Burla), Ph.D.	Design and Manufacturing				
ASS	SISTANT PROFESSORS						
9.	Ms. Anisha Ekka	B.Tech (CET, Bhubneswar), M.Tech (IIT Guwahati)	Fluid and Thermal				
10.	Mr. Birendra Kumar Barik	B.Tech. (VSSUT Burla), M.Tech. (NIT Trichy),	Manufacturing Technology				
11.	Ms. Lipsamayee Mishra	B.Tech. (BPUT), M.Tech. (VSSUT Burla)	Manufacturing System Engineering				
12.	Mr. Premananda Ekka	B.Tech (VSSUT, Burla), M.Tech (IIT, Guwahati)	Computer Assisted Manufacturing				

13.	Mr. Sambeet Kumar Sahu	B.Tech. (BPUT, Burla), M.Tech (VSSUT, Burla)	Production Engineering
14.	Ms. Smita Padhan	B.Tech. (VSSUT, Burla), M.Tech.(NIT,Warangal)	Manufacturing Engineering
15.	Ms. Sunita Sethy	B.Tech (BPUT), M.Tech. (VSSUT Burla)	Production Engineering

3. Courses offered:

The Department presently offers the following courses:

- a) B.Tech. in Production Engineering (NBA Accredited)
- b) M.Tech. in Manufacturing Systems Engineering
- c) M.Tech in Robotics & CAD-CAM
- d) Ph.D. Programme in major areas of Production Engineering

4. Laboratory Details:

Sl. No.	Name of the Lab.	Major Equipments	Research Facilities
1.	Metal Cutting Lab.	 Engine Lathe Polishing Machine Tool Grinder Acoustic analyzer Tool Maker's Microscope 	 Vibration analysis of cutting tool. Noise analysis of cutting tool Polishing of specimen
2	Metal Forming Lab.	 Shearing Machine Hydraulic Bulging machine Hydraulic press Universal testing machine 	1. Forward & Backward Extrusion 2. Hydraulic bulging & Deep draining 3. Tensile, compression & Bending Test.
3.	CAD Lab.	1. CATIA, ANSYS, Solidhllar VS	1. Modelling & Simulation
4.	Virtual Mfg. Lab.	 Open CIM I-GRIP QUEST SIMUL@ Workspace 5 3D Printer 	CIM Model simulation Robot Workspacesimulation

		7. 3D Scanner	
		1. CNC Lathe,	FMS model simulation
		2.CNC Milling,	
		3.ASRS	
5.	Robotics & FMS	4.Linear shuttle conveyor	
	Lab.	5.Pallet conveyor	
		6.Loading unloading arm	
		7. Aristo robot	
		8. Scara robot	
		1.Profile Projector	
		2.PortableSurface	
6.	Metrology Lab.	roughnesstesting,	
		3.Micro hardness testing	
		4.CMM	
		1. Laser beam machining	Micromachining of metals andceramics
7	Non Traditional	2. USM Set up	andceramics
,	Machining Lab.	3.EDM set up	
		4.AJM set up	
	Advance	1. CNC EDM	
8	Manufacturing Lab.	2. Pin on disc friction wear Test RIG	
9	Metal Cutting Lab.	Tool Maker's Microscope	





Non-Conventional Machining Lab.

Robotics & FMS Lab.

5. Details of research area of faculty members :

Sl. No.	Name of the faculty member	Research Area
1	Dr. Debadutta Mishra	Production Engineering, Robotics &FMS
2	Dr. Debabrata Dhupal	Micromachining, Advance Manufacturing Process, RP & Non-traditional machining, Metal Cutting.
3	Dr. Kamal Pal	Production Engineering, Welding & Soft computing techniques
4	Dr. Arun Kumar Rout	Tribo-mechanical study of natural fiber reinforced polymer/metal matrix composites, characterization of nanocomposites.
5	Dr. Nirmal Kumar Kund	 Semi-solid processing of light weight materials. Thermal processing of liquid metals. Solidification, macrosegregation and characterization of materials.
6	Dr. Pankaj Charan Jena	Design, Modeling, Fabrication and Mechanical Charecterization of Fibre (Glass/Carbon/Agriculture-waste) Reinforced/ Particulate Polymer Composite Structure Functional Graded/Smart Materials Structure Metal matrix composite structure Vibration analysis of Mechanical Structure, Fault Diagnosis Techniques, Fuzzy Logic.
7	Dr. Sudhansu Ranjan Das	Machining & machinability study, Hard turning, Modelling & optimization, minimum quantity lubrication, Laser micro-machining, Material characterization, machining of MMC.
8	Dr. Trupti Ranjan Mahapatra	Laminated composite structures/ Curved structures Numerical/Experimental nonlinear mechanical responses Nonlinear FEM Smart (SMA, PZT and Magnetostrictive material) Composite Structures Vibro-acoustic Analysis of Laminated/ Smart Structures Functionally Graded Material (FGM), FG-CNT

- **6. Consultancy:** Examination of failure of the welded joint
 - Mechanical characterization of materials
 - Tribological characterization of materials.

7. Other information of the department

The current research works that are being carried out in the department are:

Thermal analysis, tool erosion, crack initiation and propagation in EDM surfaces
Study of Surface roughness
Analysis of eroded crater formed under growing plasma channel in EDM
Thermal analysis and study of hole contour, surface damage (HAZ) in Nd-YAG laser drilling.
Analysis of MRR, surface roughness, tool wear in USM
Analysis of MRR through mathematical and statistical modeling in AJM
Application of soft computing techniques in FMS scheduling
Application of TOC in product mix problems

• Simulation and modeling using Robotics and Factory Floor software tools

4. INFORMATION REGARDING NBA ACCREDITATION : ACCREDITED & APPLIED FOR UG PROGRAMMES

Sl.No	Name of the branch	Year of Starting	Accreditation status	Validity upto	Remarks
1.	Civil Engineering	1956	Accredited	30/06/2021	
2.	Chemical Engineering	2014	Not Accredited		Not eligible (no professor)
3.	Computer Science & Engineering	1994	Accredited	30/06/2022	
4.	Electrical Engineering	1956	Accredited	30/06/2022	
5.	Electrical & Electronics Engineering	2010	Applied		Filling e-SAR (last date: 30/06/2020)
6.	Electronics & Telecomm. Engg.	1972	Accredited	30/06/2022	
7.	Information Technology	2003	Accredited	30/06/2021	Compliance report submitted
8.	Mechanical Engineering	1956	Accredited	30/06/2022	
9.	Metallurgy & Materials Engineering	2013	Not Accredited		To be applied
10.	Production Engineering	1996	Accredited	30/06/2021	Compliance report submitted

PG PROGRAMMES

Sl.No	Department	Name of the Specialization	Year Starting	of Accreditation status	Validity	Remarks
1.	Civil	Water Resources Engg	1969	Accredited	30/06/2020	
	Engineering	Structural Engineering	1969	Accredited	30/06/2020	
		Transportation Engineering	1975	Not		Applied
				Accredited		
		Geo-technical Engineering	2012	Not		Not applied
				Accredited		(no
						admission in
						2018)
		Environmental Science &	2012	Not		Not applied
		Engineering		Accredited		(no
						admission in
						2019)
2.	Electrical	Power System Engineering	1969	Accredited	30/06/2019	Not Applied
	Engg.	Power Electronics Control &	2011	Not		Not applied
		Drives		Accredited		
		Control& Instrumentation	2015	Not		Not applied
				Accredited		

Mechanical	Machine Design & Analysis	1972	Accredited	30/06/2020	
Engg.	Heat Power Engg.	1972	Not		Applied
			Accredited		
	Production Engineering	1972	Not		Applied
			Accredited		
	Communication Systems	1995	Accredited	30/06/2020	
	VLSI Signal Processing	2012	Not		Applied
Telecomm.			Accredited		
Engg.	Microwave Engineering	2015	Not		Not Applied
			Accredited		
Computer	Computer Science &	2008	Accredited	30/06/2019	Not Applied
Science &	&Engineering				
Engg.					
	Manufacturing Systems	2008	Not		Applied
D 1			Accredited		
	Industrial & Production Engg	2012	Not		Not applied
Engg.			Accredited		
	Robotics & CAD-CAM	2015	Not		Not applied
			Accredited		
	Information & Communication	2013	Not		Not applied
	Technology		Accredited		(No
Information					admission in
Technology					2018, 2019)
	1	2017			Not applied
	Technology		Accredited		(New
					course)
Computer	MCA	1993	Accredited	30/06/2019	Not applied
Application					
	Electronics & Telecomm. Engg. Computer Science & Engg. Production Engg. Information Technology	Engg. Heat Power Engg. Production Engineering Communication Systems VLSI Signal Processing Microwave Engineering Computer Science & Engineering Engg. Manufacturing Systems Production Engg. Robotics & CAD-CAM Information Technology Computer and Information Technology Computer and Information Technology Computer and Information Technology Computer and Information Technology	Engg. Heat Power Engg. Production Engineering 1972 Communication Systems 1995 VLSI Signal Processing 2012 Microwave Engineering Computer Science Engg. Computer Science & 2008 Engg. Manufacturing Systems Production Engg. Manufacturing Systems 2012 Industrial & Production Engg Robotics & CAD-CAM Information Technology Computer and Information 2017 Technology Computer and Information 2017 Technology Computer MCA 1993	Engg. Heat Power Engg. 1972 Not Accredited Production Engineering 1972 Not Accredited Accredited Production Engineering 1972 Not Accredited Accredited Accredited Electronics Telecomm. Engg. WLSI Signal Processing 2012 Not Accredited Accredited Microwave Engineering 2015 Not Accredited Computer Science & 2008 Accredited Engineering Engg. Manufacturing Systems 2008 Not Accredited Industrial & Production Engg 2012 Not Accredited Robotics & CAD-CAM 2015 Not Accredited Information & Communication 2013 Not Technology Computer and Information 2017 Not Accredited Computer MCA 1993 Accredited	Engg. Heat Power Engg. 1972 Not Accredited Production Engineering 1972 Not Accredited Production Engineering 1972 Not Accredited Communication Systems 1995 Accredited 30/06/2020 VLSI Signal Processing 2012 Not Accredited Microwave Engineering 2015 Not Accredited Computer Science & 2008 Accredited 30/06/2019 Science & Engineering 2015 Not Accredited Accredited Production Engg. Manufacturing Systems 2008 Not Accredited Industrial & Production Engg 2012 Not Accredited Accredited Robotics & CAD-CAM 2015 Not Accredited Information & Communication 2013 Not Accredited Information Technology Computer and Information 2017 Not Accredited Computer MCA 1993 Accredited 30/06/2019

5. PROGRAMMES OFFERED (UG, PG, PHD)

i) 4 YEARS B.TECH. PROGRAMME (FULL TIME) (ALL AICTE APPROVED)

Sl.No	Name of the branch	Year o	Sanctioned Intake						
D1.1 10		Starting	Intake	GIN**	** TFW LE*** Total 06 9+3* 140 03 6 69				
1.	Civil Engineering#	1956	90+30*	02	06	9+3*	140		
2.	Chemical Engineering	2014	60	-	03	6	69		
3.	Computer Science & Engineering#	1994	30+30*	01	03	3+3*	70		
4.	Electrical Engineering#	1956	120	02	06	12	140		
5.	Electrical & Electronics Engineering	2010	30+30*	-	03	3+3*	69		
6.	Electronics & Telecomm. Engg.#	1972	120	02	06	12	140		

7.	Information Technology#	2003	60*	-	03	6*	69
8.	Mechanical Engineering#	1956	120	03	06	12	141
9.	Metallurgy & Materials Engineering	2013	60	-	03	6	69
10.	Production Engineering#	1996	30+30*	-	03	3+3*	69
TOTA	AL	"	840	10	42	84	976

^{*} Self-sustaining programme

**GIN – Govt. of India Nominee

*** $LE-Lateral\ Entry\ of\ Diploma\ holders\ in\ 2nd\ year.$

Course accreditated by National Board of Accreditation (NBA)

TFW – Tuition Fee Waiver

ii) 5 YEARS B.ARCH. PROGRAMME (FULL TIME)

Sl.No	Name of the branch	r ear or	Sanctioned Intake	
		Starting	Intake	Total
1.	Architecture	2013	20	20

iii) 5 YEARS INTEGRATED UG & PG DUAL DEGREE PROGRAMME (FULL TIME)

Sl.No	Department	Name of the Specialisation		Sanctioned Intake
1.		B.Tech. in Civil Engg & M.Tech. in Structural Engg.	2015	18
2.		B.Tech. in Electrical Engg. & M.Tech. in Power System Engg.	2015	18
TOTAL	_			36

iv) 2 YEARS M.TECH. PROGRAMMEs (FULL TIME)

Sl.No	Department	Name of the Specialisation	Year Starting	of Sanctioned Intake
1.	Civil Engineering	*Water Resources Engg*	1969	18
		Structural Engineering	1969	18
		Transportation Engineering*	1975	18
		Geo-technical Engineering*	2012	18
		Environmental Science & Engineering*	2012	18
2.	Electrical Engg.	*Power System Engineering*	1969	18
		Power Electronics Control & Drives*	2011	18
		Control& Instrumentation*	2015	18
3.	Mechanical Engg.	*Machine Design & Analysis*	1972	18
		Heat Power Engg. *	1972	18

		Production Engineering	1972	18
4.	Electronics &	#Communication Systems*	1995	18
	Telecomm. Engg.	VLSI Signal Processing*	2012	18
		Microwave Engineering*	2015	18
5.	Computer Science & Engg.	*Computer Science & Engineering *	2008	18
6.	Production Engg.	Manufacturing Systems*	2008	18
		Industrial & Production Engg	2012	18
		Robotics & CAD-CAM*	2015	18
7	Information Technology	Information & Communication Technology *	2013	18
		Computer and Information Technology	2017	18
8	Mathematics	Computational Mathematics & Data	2010	18
		Processing		
#-N	BA Accredited * AICTE ap	provedTOTAL		360

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

Sl.No	Name of the Course	Specialisation	Year of Starting	Sanctioned Intake
1.	M.Sc. (Physics)	Applied Physics	2010	18
2.	M.Sc. (Chemistry)	Industrial Chemistry/	2010	36
		Organic Chemistry		
3.	M.Sc. (Mathematics)	Applied Mathematics	2011	18
TOTAL	· -		72	

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

Sl.No	Name of the Specialisation	Year of Starting	Sanctioned Intake
1.	Chemistry	2013	18
2.	Physics	2014	18
3.	Mathematics	2015	18
TOTAL	54		

vii) One year M.Phil. PROGRAMME (FULL TIME)

Sl.No	Name of the Specialisation	Voor of Starting	Sanctioned	
	tane of the Speciansacion	Tear or Starting	Intake	
1.	Physics	2014	10	
2.	Chemistry	2014	10	
3.	Mathematics	2014	10	
TOTAL	30			

viii) 3 YEARS MCA PROGRAMME (FULL TIME)

Sl.No	Name of the Specialisation	Year of Starting	Sanctioned Intake
1.	*Master in Computer Applications*	1993	30

#-NBA Accredited * AICTE approved

ix) Ph. D. PROGRAMME

Sl.No.	Branch	Year of Starting
1.	Civil Engineering	2010
2.	Chemistry	2010
3.	Computer Science & Engineering	2010
4.	Electrical Engineering / EEE	2010
5.	Electronics & Telecomm. Engineering	2010
6.	English	2015
7.	Information Technology	2015
8.	Mathematics	2010
9.	Metallurgy & Materials Engineering	2015
10.	Mechanical Engineering	2010
11	Production Engineering	2010
12	Physics	2010

- Further, VSSUT has been selected as nodal centre of AICTE Quality Improvement programme for pursuing Ph.D. 10 Nos. (2 each in Civil, Electrical, Mechanical, Electronics and Production Engg.) of research scholars in engineering discipline has been sponsored through. National QIP coordination Committee (NQCC)
- University has been selected as centre for National Doctoral Fellowship Scheme and has startedPh.D admission in 2018-19

6. STUDENTS STRENGTH (UG, PG, PHD : SANCTIONED INTAKE & ACTUAL INTAKE

Sl.No	Name of the branch	Year of	Sanctioned Intake f					Actual Intake
31.110	Name of the branch	Starting	Intake	GIN**	TFW	LE***	Total	
1.	Civil Engineering [#]	1956	90+30*	02	06	9+3*	140	135
2.	Chemical Engineering	2014	60	-	03	6	69	60
3.	Computer Science & Engineering#	1994	30+30*	01	03	3+3*	70	69
4.	Electrical Engineering#	1956	120	02	06	12	140	139
5.	Electrical & Electronics Engineering	2010	30+30*	-	03	3+3*	69	67
6.	Electronics & Telecomm. Engg.#	1972	120	02	06	12	140	139
7.	Information Technology#	2003	60*	-	03	6*	69	69
8.	Mechanical Engineering#	1956	120	03	06	12	141	139
9.	Metallurgy & Materials Engineering	2013	60	-	03	6	69	63
10.	Production Engineering#	1996	30+30*	-	03	3+3*	69	49
TOTAL			840	10	42	84	976	929

SI.No	Name of the Year		Sanctioned Intake		Actual Intake	
	branch	Starting	Intake	Total	Total	
1.	Architecture	2013	20	20	19	

5years Integrated UG & PG Dual Degree Programme (Full Time)

Sl.No	Department	Name of the Specialisation		Sanctioned Intake	Actual Intake
1.	Civil Engineering	B.Tech. in Civil Engg & M.Tech. in Structural Engg.	2015	18	17
2.	Electrical Engg.	B.Tech. in Electrical Engg. & M.Tech. in Power System Engg.	2015	18	18
TOTAL					35

3 YEARS MCA PROGRAMME (FULL TIME)

Sl.No	Name of the Specialisation		Sanctioned Intake	Actual Intake
1.	*Master in Computer Applications*	1993	30	29

Sl.No	Department	Name of the Specialisation	Year Starting	of Sanctione Intake	d Actual Intake
1.	Civil Engineering	*Water Resources Engg*	1969	18	NA
		Structural Engineering	1969	18	16
		Transportation Engineering*	1975	18	18
		Geo-technical Engineering*	2012	18	16
		Environmental Science & Engineering*	2012	18	NA
2.	Electrical Engg.	*Power System Engineering*	1969	18	16
		Power Electronics Control & Drives*	2011	18	12
		Control& Instrumentation*	2015	18	NA
3.	Mechanical Engg.	*Machine Design & Analysis*	1972	18	09
		Heat Power Engg. *	1972	18	10
		Production Engineering	1972	18	10

4.	Electronics	& *Communication Systems*	1995	18	NA
	Telecomm. Engg.	VLSI Signal Processing*	2012	18	10
		Microwave Engineering*	2015	18	NA
5.	Computer Science Engg.	& *Computer Science & Engineering *	2008	18	NA
6.	Production Engg.	Manufacturing Systems*	2008	18	NA
		Industrial & Production Engg	2012	18	NA
		Robotics & CAD-CAM*	2015	18	NA
7	Information Technology	Information & Communication Technology *	2013	18	NA
		Computer and Information Technology	2017	18	NA
8	Mathematics	Computational Mathematics & Data Processing	2010	18	NA
#-I	NBA Accredited * AIC	TE approved TOTAL		360	117

1. STUDENTS STRENGTH PHD: ACTUAL INTAKE

SI.	Regn.No.	Name	Branch	Category	Date of Enrollment	Supervisor
1	1810030001	NIRJHARINI SAHOO	CE	GEN-3- RDS	30.01.2018	Prof. P. K. Das
2	1810030002	MOUSUMEE HARAPRIYA ROUL	CE	GEN-3- RDS	30.01.2018	Prof. S. S. Das
3	1810030003	PRIYANKA PRADHAN	CE	GEN-3- RDS	30.01.2018	Dr. S. K. Panigrahy
4	1810030004	ANKITA BOHIDAR	CE	GEN-3- RDS	30.01.2018	Prof. P. K. Das
5	1810090001	CHANDRAKANTA MISHRA	ME	GEN-8-DS	30.01.2018	Dr. C.R. Deo
6	1810090002	RASHMI RANJAN LENKA	ME	GEN-8-DS	30.01.2018	Dr. S.K. Sarangi
7	1810090003	SASMITA KAR	ME	GEN-3- RDS	30.01.2018	Dr. S.R. Pattnaik
8	1810090004	SADANANDA PATTANAYAK	ME	GEN-8-DS	30.01.2018	Dr. H.K. Barik
9	1810090005	SANGEETA DAS	ME	GEN-8-DS	30.01.2018	Dr. H.K. Barik
10	1810090006	DEEPAK KU. MOHAPATRA	ME	GEN-8-DS	20.02.2018	Dr. P.P. Mohanty
11	1810050001	GAURI SAHOO	EE	GEN-8-DS	30.01.2018	Dr. R.K. Sahu
12	1810050002	RAJIB LOCHAN DASH	EE	GEN-8-DS	30.01.2018	Dr. P.K. Hota
13	1810050003	DEBASHISH MISHRA	EE	GEN-8-DS	30.01.2018	Dr. S.P. Panigrahi
14	1810050004	ABHISEK GANTAYAT	EE	GEN-3-DS	30.01.2018	Dr. Shanti Behera
15	1810050005	SUNITA PATEL	EE	GEN-8-DS	30.01.2018	Dr. Banaja Mohanty
16	1810070001	V CH SEKHAR RAO RAYAVARAPU	ETC	GEN-8-DS	30.01.2018	Dr. A. Mahapatro
17	1810070002	SUBRAT KUMAR SETHI	ETC	SC-4-INT	30.01.2018	Dr. A. Mahapatro
18	1810070003	SUBHASHREE SAMAL	ETC	GEN-3-DS	30.01.2018	Dr. H.K. Sahoo
19	1810070004	MD RIZWAN KHAN	ETC	GEN-8-DS	30.01.2018	Dr. B. Das
20	1810070005	LOPAMUDRA GHADEI	ETC	GEN-4- INT	30.01.2018	Dr. H.K. Sahoo
21	1810070006	PREMANANDA MISHRA	ETC	GEN-9-DS	30.01.2018	Dr. S. Agrawal
22	1810040001	KAUSHIK MISHRA	CSE	GEN-3- RDS	30.01.2018	Dr. S.K. Majhi
23	1810040002	NIBEDAN PANDA	CSE	GEN-3- RDS	30.01.2018	Dr. S.K. Majhi
24	1810040003	BANDITA SAHU	CSE	GEN-3-RB	30.01.2018	Dr. M.R. Kabat
25	1810040004	MADUGULA MURALI KRISHNA	CSE	GEN-8-DS	30.01.2018	Dr. S.K. Majhi
26	1810040005	MUNMUN SAHA	CSE	GEN-3-DS	30.01.2018	Dr. S. Panigrahi
27	1810080001	ANIMA PRADHAN	ΙΤ	GEN-3- RDS	30.01.2018	Dr. M.R. Senapati
28	1810080002	PRAGYAN PARIMITA SAHOO	Η	GEN-3- RDS	30.01.2018	Dr. M.R. Senapati
29	1810080003	ALINA DASH	IT	GEN-4- INT	30.01.2018	Dr. Kshiramani Naik
30	1810080004	SATYAJIT PATTNAIK	IT	GEN-8-DS	30.01.2018	Dr. P.K. Sahu
31	1810110001	SMITA PADHAN	PE	SC-4-INT	30.01.2018	Dr. S.R. Das
32	1810110002	BINITA DASH	PE	GEN-3-DS	30.01.2018	Dr. T.R. Mohapatra
33	1810110003	RANJAN MAJHI	PE	3	30.01.2018	Dr. N.K. Kund
34	1810110004	SARITPRAVA SAHOO	PE	GEN-3-	16.02.2018	Dr. P.C. Jena
35	1810100001	RUDRANARAYAN BEHERA	MME	3	30.01.2018	Dr. Manila Mallik

36	1810010001	SHASWAT SEKHAR SARANGI	ARC	GEN-4- INT	30.01.2018	Dr. B. Mohapatra
37	1810010002	AMIT CHATTERJEE	ARC	GEN-4- INT	30.01.2018	Dr. B. Mohapatra
38	1810150001	HEMANTA KUMAR PAIKRAY	CA	3	30.01.2018	Dr. Sucheta Panda
39	1810150002	BISWA RANJAN ACHARYA	CA	3	30.01.2018	Dr. Sasmita Ku. Padhy
40	1810120001	SAYALA RAJESH BABU	CH	8	30.01.2018	Dr. Ramakrishna DS
41	1810120002	SWAGATIKA TRIPATHY	CH	8	30.01.2018	Prof. R.B. Panda
42	1810120003	RUPASHREE DASH	CH	3	01.02.2018	Dr. Sukalyan Dash
43	1810120003	RUBI BEHURA	CH	GEN-3-	19.02.2018	Dr. B.R. Jalli
44	1810140001	SIDHESWAR BEHERA	PHY	SC-4-INT	30.01.2018	Dr. J. S. Virdi
45	1810140002	PUNYATOYA DAS	PHY	GEN-3-	30.01.2018	Dr. P. L. Praveen
46	1810140003	SADHWI SUMAN DASH	PHY	3	30.01.2018	Dr. M. P. K. Sahoo
47	1810130001	ARPITA ANINDITA DAS	MATH	3	30.01.2018	Dr. S.K. Paikray
48	1810130002	SHUBHASHREE BEBARTA	MATH	2	30.01.2018	Dr. M.K. Jena
49	1810180001	M. AISHVARYA	HUM	3	30.01.2018	Dr. P. K. Padhee

2. FACULTY POSITIONS : SANCTIONED POSITIONS & FILLED IN POSITIONS PROFESSOR

Name of Dept.	Sanctioned Strength	Existing	No. of vacancy
CIVIL ENGINEERING	06	06	00
MECHANICAL	06	2	4
ENGINEERING			
ELECTRICAL	04	04	00
ENGINEERING			
ELECTRONICS & TC ENGINEERING	04	02	02
COMPUTER SCIENCE & ENGINEERING	03	02	01
PRODUCTION	03	02	01
ENGINEERING			
ELECTRICAL &			
ELECTRONICS ENGINEERING (EEE	01	01	00
INFORMATION	02	00	02
TECHNOLOGY			
METALLURGY &	01	00	01
MATERIAL ENGINEERING			
CHEMICAL	01	00	01
ENGINEERING			

COMPUTER	01	00	01
APPLICATION (MCA)			
ARCHITECTURE	01	00	01
PHYSICS	04	02	02
CHEMISTRY	04	04	00
MATHEMATICS	04	01	03
HUMANITIES	-	-	-
TOTAL	45	26	19

(ASSOCIATE PROFESSOR)

Name of Dept.	Sanctioned Strength	Existing	No. of vacancy
CIVIL ENGINEERING	13	06	07
MECHANICAL	13	12	01
ENGINEERING			
ELECTRICAL	09	04	05
ENGINEERING			
ELECTRONICS & TC	11	09	02
ENGINEERING			
COMPUTER	06	03	03
SCIENCE &			(01 Subjudice)
ENGINEERING			
PRODUCTION	06	06	00
ENGINEERING			
ELECTRICAL &	03	02	01
ELECTRONICS			
ENGG			
INFORMATION	05	04	01
TECHNOLOGY			(01 Subjudice)
METALLURGY &	04	01	03
MATERIAL			
ENGINEERING	00		
CHEMICAL	02	00	02
ENGINEERING			
COMPUTER	02	02	00
APPLICATION			
(MCA)			
ARCHITECTURE	02	02	00
PHYSICS	06	04	02(01 Subjudice)
CHEMISTRY	06	03	03
MATHEMATICS	06	02	04
HUMANITIES	01	01	00
TOTAL	95	61	34

(ASSISTANT PROFESSOR)

Name of Dept.	Sanctioned Strength	Existing	No. of vacancy
	21	19	02
CIVIL			
ENGINEERING			
MECHANICAL	21	16	05
ENGINEERING			(01 Subjudice)
ELECTRICAL	21	18	03
ENGINEERING			
ELECTRONICS &	21	21	00
TC ENGINEERING			
COMPUTER	06	06	00
SCIENCE &			
ENGINEERING			
PRODUCTION	08	07	01
ENGINEERING			(01 Subjudice)
ELECTRICAL &	05	05	00
ELECTRONICS			
ENGINEERING			
(EEE)			
INFORMATION	11	11	00
TECHNOLOGY			
METALLURGY &	11	09	02
MATERIAL			
ENGINEERING			
CHEMICAL	06	06	00
ENGINEERING			
COMPUTER	04	04	00
APPLICATION			
(MCA)			
ARCHITECTURE	03	02	01
PHYSICS	08	07	01
CHEMISTRY	06	04	02
MATHEMATICS	07	05	02
HUMANITIES	05	05	00
TOTAL	164	145	19
17: Cl II	•	01 52	11 - 3

Vice-Chancellor - 01 - Filled

Professor, T & P - 01 - Filled

Dean, Students' Selfare - 01 - Vacant

Workshop Superindent - 01 - Filled

Controller of Examination - 01 - Vacant (Subjudice)

3. STAFF POSITIONS: SANCTIONED POSITIONS & FILLED IN POSITIONS

Sl No	Name of Posts	Total No. of Sanctione d post	Total No. of Employees working agianst Sanctioned post	Total vacancy of Employees
1	Assistant Registrar	2	-	2
2	Senior Instructor	8	8	-
3	Senior Librarian	1	-	1
4	Technical Assistant	1	1	-
5	Maintenance Engineer	1	-	1
6	Physical Training Instructor	1	-	1
7	Office Superintendent	1	1	-
8	Section Officer	4	3	1
9	P.A. to V.C.	1	0	1
10	Librarian	1	1	-
11	Demonstrator	3	1	2
12	Junior Instructor	6	4	2
13	Computer Programmer	1	1	-
14	Campus Supervisor	1	1	-
15	Mechanic Grade-I	4	4	-
16	System Operator	1	-	1
17	Senior Assistant	18	12	6
18	Senior Stenographer	3	3	-
19	Store Keeper	1	-	1
20	Mechanic Grade-II	10	8	2
21	Pharmacist	1	1	-
22	Mechanic Grade-III	4	4	-
23	Mason	1	1	-
24	Telephone Operator	3	3	-
25	Tracer	1	1	-
26	Driver (Heavy Vehicle)	1	1	-
27	Care-Taker	2	2	-
28	Ferro Printer	1	1	-
29	Junior Assistant	11	11	-
30	Assistant Hostel Matron	1	1	-
31	Book Binder	1	1	-
32	Head Mali	1	0	1
33	Laboratory attendant	26	21	5
34	Treasury Sarkar	1	-	1
35	Work Sarkar	1	1	-
	TOTAL	125	97	28

		Total No.	Total No. of	Total
Sl		of	Employees	vacancy
No		Sanctione	working agianst	of
	Name of Posts	d post	Sanctioned post	Employees
1	Mali	3	3	•
2	Zamadar	1	-	1
3	Daftary	1	1	-
4	Head Peon	1	1	-
5	Library Attendant	4	3	1
6	Peon	18	18	-
7	Sweeper	6	6	-
8	Computer Attendant	1	1	-
9	Library Gate Keeper	2	2	-
10	Watchman	13	13	-
11	Cook-Cum-Attendant	1	1	-
	TOTAL	51	49	2

Sl No.	Name of Posts	Total No. of Sanctioned post with approval of the State Govt.	Total No. of Employees working agianst Sanctioned post	Total vacancy of Employees	Fund received from state govt.
1	Junior Instructor	23	19	4	YES
2	Junior Stenographer	2	-	2	
3	Mechanic Grade-III	8	4	4	YES
4	Carpenter	1	-	1	
5	Driver (Light Vehicle)	1	1	-	YES
6	Typist	1	-	1	
7	Care-taker	1	1	-	YES
8	Laboratory attendant	1	-	1	
9	Attendant (Class-IV)	2	2	-	YES
	TOTAL	40	27	13	

4. EXAM RESULTS ANALYSIS

		NO. OF		
PROGRAMME	BRANCH	STUDENTS	TOTAL	
		PASSED		
	COMPUTER SCIENCE & ENGINEERING	06		
	ELECTRICAL ENGINEERING	05	-	
	ELECTRONICS & TELECOMMUNICATION	05	_	
	ENGINEERING			
Ph.D	MECHANICAL ENGINEERING	02	26	
	PRODUCTION ENGINEERING	01	-	
	CHEMISTRY	03	-	
	MATHEMATICS	03	-	
	PHYSICS	01	-	
	CHEMISTRY	08		
M.PHIL	MATHEMATICS	08	16	
	CIVIL ENGINEERING			
	ENVIRONMENTAL SCIENCE &	16		
	ENGINEERING			
	GEOTECHNICAL ENGINEERING	13	-	
	STRUCTURAL ENGINEERING	12	-	
	TRANSPORTATION ENGINEERING	15	-	
M.TECH	WATER RESOURCES ENGINEERING	15	213	
W.TECH	COMPUTER SCIENCE & ENGINEERING		213	
	COMPUTER SCIENCE & ENGINEERING	16	-	
	ELECTRICAL ENGINEERING		_	
	CONTROL & INSTRUMENTATION ENGINEERING	16		
	POWER ELECTRONICS CONTROL & DRIVES	14	-	
	POWER SYSTEM ENGINEERING	14	-	

	ELECTRONICS & TELECOMMUNICATION	ENGINEERING	
	COMMUNICATION SYSTEM ENGINEERING	12	
	VLSI SIGNAL PROCESSING	14	
	MECHANICAL ENGINEERING		
	HEAT POWER ENGINEERING	14	
	MACHINE DESIGN & ANALYSIS	14	
	PRODUCTION ENGINEERING	12	
	PRODUCTION ENGINEERING		
	MANUFACTURING SYSTEM ENGINEERING	16	
MCA	MASTER IN COMPUTER APPLICATION	33	33
	CHEMISTRY (INDUSTRIAL CHEMISTRY)	15	
M.SC	MATHEMATICS (APPLIED MATHEMATICS)	16	46
	PHYSICS (APPLIED PHYSICS)	15	
INT.M.SC.	CHEMISTRY	08	16
11(1.1/1.5C.	PHYSICS	08	
	CHEMICAL ENGINEERING	63	
	CIVIL ENGINEERING	118	
	COMPUTER SCIENCE & ENGINEERING	72	
	ELECTRICAL ENGINEERING	151	
	ELECTRICAL & ELECTRONICS ENGINEERING	60	
в.тесн	ELECTRONICS & TELECOMMUNICATION ENGINEERING	129	908
	INFORMATION TECHNOLOGY	48	
	MECHANICAL ENGINEERING	144	
	METALLURGICAL & MATERIALS ENGINEERING	66	
	PRODUCTION ENGINEERING	57	
B.ARCH	ARCHITECTURE	38	38
		L	

5. TRANSITION RATE OF UG STUDENTS:

98% of students transition without backlog in Undergraduate Programmes.

6. GATE QUALIFIED STUDENTS DATA

		T	T	1
		GATE		
		Registration		
		Number		
		(Printed in	Qualifie	GAT
		GATE Admit	d	E
Name of Final Year Student	Branch	Card)	GATE	Score
	Metallurgy And Materials	MT20S1604114		
Santanu Kumar Pal	Engineering	9	Yes	460
		ME20S1604113		
Sourav Agrawal	Mechanical Engineering	2	Yes	672
		ME20S2604101		
ANKITA DASH	Mechanical Engineering	1	Yes	39.14
		ME20S2604107		
Sanjay Kumar Dash	Mechanical engineering	3	Yes	594
Bikash Vagaban Das	Electrical engineering	EE20S56041205	Yes	264
	Metallurgy And Materials	MT20S1604114		
Santanu Kumar Pal	Engineering	9	Yes	460
SHREETAM SHANKAR				
MAHAPATRA	ELECTRICAL ENGINEERING	EE20S56041124	Yes	460
Satyajit Swain	Electrical Engineering	EE20S56042204	Yes	643
Tejesw ar Patro	EE	EE20S56041148	Yes	490
RIA DAS	Electronics and telecommunication	EC20S46041093	Yes	381
Suvam Parija	Electrical Engineering	EE20S56042081	Yes	362
Sambit Panda	Electrical Engineering	EE20S56041112	Yes	613
Sambit Panda	Electrical Engineering	EE20S56041112	Yes	613
SOURAV PATEL	Electronics and telecommunication	EC20S46042063	Yes	718
Nishtha Dalei	ETC	EC20S46030549	Yes	442
Abinash puhan	Electronics and telecommunications	EC20S46042066	Yes	369
	Electronics and Telecommunication			
Kedarnath Sahu	Engineering	EC20S46041012	Yes	365
Gedala Sai Praveen	Electronics and Telecommunication	EC20S46041026	Yes	397
SOURAV CHAND	ELECTRICAL ENGINEERING	EE20S56035203	Yes	366
Mahavisek Patra	EE	EE20S56041208	Yes	498
PRITISH KUMAR SAHU	ELECTRICAL ENGINEERING	EE20S56032195	Yes	481
Soumya samit samal	civil engineering	CE20S76042039	Yes	38.64
2 0 00000000000000000000000000000000000		ME20S2604112		
Pratyush Masanta	Mechanical Engineering	3	Yes	44.4
MAHABIR ASISH			- ~	
MOHANTY	ELECTRICAL ENGINEERING	EE20S56041103	Yes	370
Shibananda Sahoo	Electrical engineering	EE20S56042082	Yes	507
Rohit Kumar Tekriwal	ETC	EC20S46030542	Yes	446
Abhijit Rath	Electronics and Telecommunication	EC20S46031053	Yes	33.67
1 10 mjn rum	Discussiones and Tolecommunication	10051055	100	33.07

Soumyajit Dash	Electrical Engineering	EE20S56042079	Yes	370
Pradeep Kumar Behera	Electronics & Tele Communication	EC20S46042026	Yes	247
Anwesha Mishra	Electrical	EE20S56042176	Yes	451
SATYABRATA SAHU	ECE	EC20S46041057	Yes	377
JAYADEV TRIPATHY	EE	EE20S56041147	Yes	532
Naresh Rana	Electrical engineering	EE20S56042183	Yes	430
Soumyaranjan Behera	EE	EE20S56041075	Yes	264
Gurprit Singh	Electrical engineering	EE20S56042021	Yes	460
Arati Barwa	Electrical Engineering	EE20S56042181	Yes	25.67
		ME20S1604201		
Swayamprabha Gouda	Mechanical engineering	0	Yes	373
Anwesha Mishra	Electrical	EE20S56042176	Yes	451
SHASHWAT PANDA	CIVIL ENGINEERING	CE20S76042069	Yes	402
Manas Ranjan Biswal	Electrical Engineering	EE20S56042208	Yes	36
PRITISH KUMAR SAHU	ELECTRICAL ENGINEERING	EE20S56032195	Yes	481
PRATYUSH KUMAR				
DORA	CIVIL ENGINEERING	CE20S86042045	Yes	36.33
Soyongsidhha Dey	Civil Engineering	D243U77	Yes	384
Susanta Behera	Electrical Engineering	EE20S56042039	Yes	213
Satyaranjan Sahoo	Civil Engineering	CE20S86042014	Yes	36.33
Gagan Bihari Mangaraj	civil engineering	CE20S76042067	Yes	24.95
Bhomiya Kalo	Civil Engineering	CE20S76042078	Yes	260
B.Kailash Rao	Civil Engineering	CE20S76042021	Yes	42.55
Dolamani Barpanda	Civil Engineering	CE20S76041003	Yes	501
B.Kailash Rao	Civil Engineering	CE20S76042021	Yes	455
Bishal Naik	Civil Engineering	CE20S76041035	Yes	625
Subham Sekhar Sarangi	EEE	EE20S56042153	Yes	41.67
SANDEEP				
SAMANTARAY	ELECTRICAL ENGINEERING	EE20S56038189	Yes	38.67
		MT20S1603936		
Gouranga Behera	MME	4	Yes	430
_		MT20S1603817		
Somanath Gochhayat	MME	8	Yes	51.67
K Snehashis subudhi	Civil engineering	CE20S76042004	Yes	608
PRATYUSH KUMAR				
TRIPATHY	CIVIL ENGINEERING	CE20S76035436	Yes	487
Smruti ranjan rout	civil engineering	CE20S86041028	Yes	425
Srikant Mohanty	ETC	EC20S46042110	Yes	393
ARATI PRADHAN	CIVIL	D356D26	Yes	34.07

7. TRAINING PROGRAMMES HELD FOR STUDENTS

Sl	Name of the Programme	Date
NO.		
01	Media Summit	
02	Hackathon (Health Care, Disaser Management and	15-16 Feb 2020
	environment, Automation and next gen, Miscellaneous)	
03	Matrudiwas	20 th Feb 2020
04	Boot Camp	17- 18 Feb 2020

8. TRAINING PROGRAMMES HELD FOR TEACHERS

TEQIP CUNDUCTED TRAINING PROGRAMME						
Sl						
No.	Dept	Training mode	Title of training	From	То	
				15-01-		
01	Production	Workshop	OTAM	2019	19-01-2019	
				28-01-		
02	Chemical	Workshop	MSDAER-2019	2019	01-02-2019	
0.2	G: 11	*** 1 1	T 'C CI '11 N#	07-02-	12 02 2010	
03	Civil	Workshop	Life Skill Management	2019	12-02-2019	
0.4	C::1	XX711	W/stsu IIslandan	12-03-	16 02 2010	
04	Civil	Workshop	Water Urbanism	2019	16-03-2019	
05	N/1: 1	XX711	AOTAMD 2010	25-03-	20.02.2010	
05	Mechanical	Workshop	AOTAMP-2019	2019	30-03-2019	
06	Dlaveice	Conf.	NCFAM-2019	27-07- 2019	28-07-2019	
06	Physics	Com.	NCFAM-2019		28-07-2019	
07	EE	Conf.	NCGTR	19-10- 2019	20-10-2019	
07	EE	Com.		2019	20-10-2019	
			Design and Development of	21-10-		
08	Physics	FDP/Workshop	Materials for technological Applications	2019	26-10-2019	
00	Tilysics	1 D1 / WOLKSHOP	Modeling & Simulation	2017	20-10-2019	
			Electrical System using	28-10-		
09	EE	STC	Matlab Simulation	2019	02-11-2019	
				05-08-		
10	EE	Workshop	MEPSN	2019	10-08-2019	
		_		24-12-		
11	Chemistry	National Conf.	RAIMS - 2019	2019	25-12-2019	
				07-02-		
12	Mathematics	Int. Conf.	ICAMC - 2020	2020	08-02-2020	

9. **STUDENT DATA INTERNSHIP**:

Sl. No	Name of the student	Regd. No.	Branch	Summer Internship/ Industrial Training/Seminar /Conference	Duration	Place
1	Siddhant Mohanty	1702100049	MME	Seminar	04.09.2019 to 07.09.2019	CSIR-NML,Tata Steel Jamshedpur
2	Aiswarya Kumar Sahoo	1702100003	MME	Seminar	04.09.2019 to 07.09.2019	CSIR-NML,Tata Steel Jamshedpur
3	Atulya Sahoo	1602100015	MME	Training Programme	20.11.2019 to 24.11.2019	Hotel May Fair Lagoon, Bhubaneswar Organizer- JNARDDC, Nagpur
4	Swagat Suman Naik	1602100054	MME	Training Programme	20.11.2019 to 24.11.2019	Hotel May Fair Lagoon, Bhubaneswar Organizer- JNARDDC, Nagpur
5	Dayasagar Majhi	13010657	MME	Conference	20.11.2019 to 23.11.2019	OPJU, Raigarh, Chhatisgarh
6	Suchismita Nath	1703100022	MME	Conference	20.11.2019 to 23.11.2019	OPJU, Raigarh, Chhatisgarh
7	Suprava Patel	1602100052	MME	Training Programme	11.11.2019 to 20.11.2019	IIM, Hotel Uday Samudra,Thiruvana thapuram, Kerala
8	Yashraj Panda	1702110030	PE	Training Programme	09.11.2019 to 12.11.2019	Maker Faire, Hyderabad
9	Soumya Kanta Panda	1802100061	MME	Conference	20.11.2019 to 23.11.2019	OP Jindal University, Raigarh
10	Debi Prasad Patra	1802100016	MME	Conference	20.11.2019 to 23.11.2019	OP Jindal University, Raigarh
11	Biswajit Beuria	1702070035	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
12	Ajit Mohanty	1702070012	ETC	Summer Internship	16.05.2019	Integrated Test Range, Chandipur, Balasore

					to	
13	Tanweer Alam Raza	1602100058	MME	Summer Internship	17.06.2019 20.05.2019 to 08.07.2019	NIT, Rourkela
14	Atulya Sahoo	1602100015	MME	Summer Internship	20.05.2019 to 19.07.2019	NIT, Rourkela
15	K. R. Satyajit	15011308	EEE	Industrial Training	16.05.2019 to 28.06.2019	DRDO, Gas Turbine Research Establishment, Bengaluru
16	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
17	Suprava Patel	1602100052	MME	NMD ATM	11.11.2019 to 20.11.2019	IIM, Kerala
18	Ajit Mohanty	1702070012	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
19	Tanweer Alam Raza	1602100058	MME	Summer Internship	20.05.2019 to 10.07.2019	NIT, Rourkela
20	Abhinav Kumar Padhan	1602030002	CE	Summer Internship	17.05.2019 to 22.06.2019	Civil Engg. Dept. IIT, Bombay
21	Atulya Sahoo	1602100015	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
22	Bibhudatta Nanda	1602100019	MME	Industrial Training	15.05.2019 to 17.06.2019	Tata Steel Jamshedpur
23	Biswajit Beuria	1702070035	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
24	Bismaya Sahoo	1602100020	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
25	Rutumber Nath	1702050068	EE	Summer Internship	18.05.2019 to17.06.2019	ITR, Chandipur, Bilasore
26	K. R. Satyajit	15011308	EEE	Industrial Training	16.05.2019 to 28.06.2019	DRDO, Gas Turbine Research Establishment, Bengaluru

27	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
28	Biswajit Beuria	1702070035	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
29	Ajit Mohanty	1702070012	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
30	Tanweer Alam Raza	1602100058	MME	Summer Internship	20.05.2019 to 10.07.2019	NIT, Rourkela
31	Abhinav Kumar Padhan	1602030002	CE	Summer Internship	17.05.2019 to 22.06.2019	Civil Engg. Dept. IIT, Bombay
32	Atulya Sahoo	1602100015	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
33	Bibhudatta Nanda	1602100019	MME	Industrial Training	15.05.2019 to 17.06.2019	Tata Steel Jamshedpur
34	Bismaya Sahoo	1602100020	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
35	Rutumber Nath	1702050068	EE	Summer Internship	18.05.2019 to17.06.2019	ITR, Chandipur, Bilasore
36	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
37	Biswajit Beuria	1702070035	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
38	Ajit Mohanty	1702070012	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
39	Tanweer Alam Raza	1602100058	MME	Summer Internship	20.05.2019 to 10.07.2019	NIT, Rourkela
40	Abhinav Kumar Padhan	1602030002	CE	Summer Internship	17.05.2019 to 22.06.2019	Civil Engg. Dept. IIT, Bombay

41	Atulya Sahoo	1602100015	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
42	Bismaya Sahoo	1602100020	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
43	Rutumber Nath	1702050068	EE	Summer Internship	18.05.2019 to17.06.2019	ITR, Chandipur, Bilasore
44	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
45	Biswajit Beuria	1702070035	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
46	Ajit Mohanty	1702070012	ETC	Summer Internship	16.05.2019 to 17.06.2019	Integrated Test Range, Chandipur, Balasore
47	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
48	Shakti Prasad Mohanty	1702111053	PE	Summer Internship	16.05.2019 to 21.06.2019	DRDO,DRDL, Kanchanbagh, Hyderabad
49	Tanweer Alam Raza	1602100058	MME	Summer Internship	20.05.2019 to 10.07.2019	NIT, Rourkela
50	Abhinav Kumar Padhan	1602030002	CE	Summer Internship	17.05.2019 to 22.06.2019	Civil Engg. Dept. IIT, Bombay
51	Atulya Sahoo	1602100015	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
52	Bibhudatta Nanda	1602100019	MME	Industrial Training	15.05.2019 to 17.06.2019	Tata Steel Jamshedpur
53	Bismaya Sahoo	1602100020	MME	Summer Internship	19.05.2019 to 10.07.2019	NIT, Rourkela
54	Rutumber Nath	1702050068	EE	Summer Internship	18.05.2019 to17.06.2019	ITR, Chandipur, Bilasore
55	Bismaya Sahoo	1602100020	MME	Summer Internship	20.05.2019 to 19.07.2019	NIT, Rourkela

56	Shweta Bose	1702110024	PE	Industrial Training	04.06.2019 to 16.07.2019	Tata Steel Jamshedpur
57	Ankita Meher	1702110003	PE	Industrial Training	24.06.2019 to 23.07.2019	Nalco, Nalconagar, Angul

10. **CAMPUS PLACEMENT DATA**: 31 Nos. of companies have visited the University for Campus Recruitment this year. The Training & Placement Cell offered jobs to 669 nos. of students through campus recruitment programme during 2019-20. The details of placement are given below.

				PLA	CEM	ENT	STAT	TISTIC	S 201	9-20					
Sl. No	Name of the recruiting Companies	CTC (LPA)	MME	EE Engg.	EEE Fnoo	Mech	Civil	Comp.Sc	IT Engg.	ETC Engg.	PE	Che	MCA	M.Tech/ Mtech	Total
1	Nineleaps	4.5						2		2					4
2	Gyansys	4.5		3				2	1	1					7
	TATA STEEL	10.1													
3	(PPO)	1				1									1
4	DELOITTE	7.6		2	3			9	1						15
5	KREETI TECHNOLOG IES	6						3	1	2					6
	INFOSYS (HACKWITHI														
6	NFY)	5						3	2	1					6
7	TATA STEEL BSL	4.8	1	2		2									5
8	JARO EDUCATION	5.16										2			2
9	INFOSYS	3.6	6	26	12	12	11	11	9	29	4	7	3	10	140
10	COGNIZANT	4.56	8	18	18	17	6	13	11	17	6	9		6	129
11	ACCENTURE	4.5	3	24	13	10	9	15	13	24	12	5	3		131
12	TCS	3.36	2	21	8	10	7	16	11	24	8	2	4	7	120
13	L&T ECC	6.27		4			9								13
14	IBM	4.5							1	1					2
1.5	COGNIZANT (CYBERSEC	- A						4							
15	URITY)	5.4						4	2			_			6
16	MACLEODS Aditya Birla											5			5
17	Group	6.6	6	6		12			1			7			32
18	WIPRO	3.5							1						1
19	PRADAN	7.2	2			2				2	2				8
20	HCL	3.5			1										1
21	JK PAPER	4.5										3			3
	MARUTI			2		4									7
22	SUZUKI L&T	10.1		3		4									/
23	Techgium	4		3	1	4				2					10

		10.8													
24	Credit Suisse	1						2	1						3
25	TRL	4.65				1									1
	WINDMOLLE														
26	R			1											1
27	Kodnest								1	1					2
	Cognizant														
	Infrastructure														
28	services	4.1		1		1					1				3
29	SG Analytics	7.25						1							1
30	Amazon	15						1							1
31	BYJUS	10.1					2					1			3
	TOTAL		2	11											
	OFFERS		8	4	56	76	44	82	56	106	33	41	10	23	669

11. SPONSORED R&D PROJECT IN HAND

N o.	Year	Fundi ng Agenc y	Sche me	Project Name	Principal Investigator	Departme nt	Amo unt (Lak hs)
1	2016- 17	AICT E	MOD ROB	Data mining Laboratory	Manas Ranjan Senapati	Informatio n Technolog y	₹ 10.65
2	2016- 17	AICT E	MOD ROB	MODROBS of Microwave Laboratory	Debasis Mishra	Electronics & Tele- Communic ation Engineerin g	₹ 6.03
3	2017- 18	AICT E	MOD ROB	Modernization of Electrical power System Laboratory	Ajit Barisal	Electrical Engineerin g	₹ 18.00
4	2017- 18	AICT E	MOD ROB	Modernization Structural Engineering laboratory	Sanjaya Patro	Civil Engineerin g	₹ 18.50
5	2017- 18	AICT E	MOD ROB	Modernization of Microcontrolle r and Embedded System Laboratory	Manoranjan Pradhan	Electronics & Tele- Communic ation Engineerin g	₹ 8.50

6	2015- 16	DST	SER B	Assessment of Wide-Area measurement Signal by Computational intelligence Techniques	Papia Ray	Electrical Engineerin g	₹ 15.46
7	2016- 17	DST	SER B	Fundamental investigation of biopolymers- bio surfactants interaction towards understanding tdeir physicochemic al behaviour using fluorescent drug molecules	Monalisha Mohapatra	Chemistry	₹ 37.62
8	2017- 18	CPRI		IEC 61850 Compliant SF6 Monitoring System for Gas Insulated SwiTele- Communication hgear	GyanRanjan Biswal	Electrical & Electronics Engineerin g	₹ 33.64
9	2017- 18	DST	SER B	Mining Socio- economic Factors Affecting Agricultural Productivity in Sambalpur District, Odisha State: Soft Computing based Machine Learning Approaches	Bighnaraj Naik	Computer Applicatio n	₹ 19.06

10	2017- 18	UGC	UKI ERI- III	FRP shear strengtdening of damaged concrete beams subjected to fatigue loading	Amar Natd Nayak	Civil Engineerin g	₹ 12.19
11	2016-17	AICT E	MOD ROB	Development of Advanced Concrete laboratory for Development of Sustainable Concrete incorporating Recycled Coarse Aggregators Ground Granulated Blast furnace Slag	Amar Natd Nayak	Civil Engineering	₹ 19.00
12	2017-18	AICT E	MOD ROB	Modernization of Communicatio n Laboratory	Bikramaditya Das	Electronics & Tele- Communicat ion Engineering	₹ 7.97
13	2018-19	AICT E	RPS- NDF	Development of Fluidized Bed-Hot Abrasive Jet Machining (FB-HAJM) for Micro Machining.	Debbrata Dhupal	Production Engineering	₹ 24.80
14	2018-19	AICT E	RPS- NDF	Assessment of tde Potential for River Bank Filtration in tde State of Odisha	Rakesh Roshan Dash	Civil Engineering	₹ 10.00

12. CANDIDATES DOING PHD

Sl. No.	Department	No. Of Student Enrolled
01	Architecture	02
02	Chemical Engineering	01
03	Chemistry	05
04	Civil Engineering	06
05	Computer Application	01
06	Computer Science &	03
	Engineering	
07	Electrical Engineering	05
08	Electrical & Electronics	01
	Engineering	
09	Humanities	03
10	Information Technology	02
11	Mathematics	02
12	Mechanical Engineering	07
13	Metallurgical & Materials	03
	Engineering	
14	Physics	02
15	Production Engineering	04
16	Electronics and	04
	Telecommunication	
TOTAL	·	51

13. R&D ACHIEVEMENTS

The faculty members of the university are engaged in good quality research and are supervising M.Tech., M.Phil. and Ph.D. Scholars. The faculty members have published a number of research papers in peer reviewed research journals. They have also published Books and Chapters for Books. Further, the departments have organized number of conferences and Seminars. 384 Nos. Ph.D. Scholar are currently pursuing their research work in the University.

14. AICTE National Doctoral Fellowship (NDF)

The following candidates taken admission into full time Ph. D. programme under AICTE-National Doctoral Fellowship (NDF-2019).

Sl.No.	Name of the student	Department
1	Anamika Bandopadyay	Civil Engg.
2	Hemanta Ku. Behera	
3	Swarnima Subhadarsini	
4	Rahul Ray	Mechanical Engg.
5	Deepak Kumar Mohapatra	
6	Susanta Behera	
7.	Valipilli Somesh	Production Engg.
8.	Nisith Kumar Goswami	

15. Books Published / Edited

Bionanocomposites for packaging applications, Editors: Dr. Mohammad Jawaid and **Prof. Sarat Kumar Swain**, Hardcover ISBN 978-3-319-67318-9, eBook ISBN 978-3-319-67319-6, Publisher: Springer International Publishing, 1st Ed. (2018) DOI: 10.1007/978-3-319-67319-6. Link: http://www.springer.com/in/book/9783319673189.

- 2. Nanostructured Polymeric composites for biomedical applications, Editors: **Prof. Sarat Kumar Swain and** Dr. Mohammad Jawaid, Hardcover **Paperback ISBN:** 9780128167717, Publisher: **Elsevier**, 1st Ed. (2019) (In Press) E-ISBN 978-0-12-816771-7. https://www.elsevier.com/books/nanostructured-polymer-composites-for-biomedical-applications/swain/978-0-12-816771-7
 - 3. Basanta Kumar Nanda, Ankan Mishra, SudhansuRanjan Das, D. Dhupal (2019) Fluidized Bed Hot Abrasive Jet Machining (FB-HAJM) of K-60 Alumina Ceramic. In: Shunmugam M.S., Kanthababu M. (eds) Advances in Interdisciplinary Engineering.Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore, Chapter 53, ISBN: 978-981-329-470-7**Scopus**
- 4. SudhansuRanjan Das, "Machinability of Different Hardened Steels With Coated Ceramic Tool", Scholars' Press, ISBN: 978-613-8-91626-0,(2019).
- 5. Dhupal D., Dixit S.R., Pattanayak S., Routray R.R., Behura A.K., Das S.R. (2019) Assessment, Modeling, and Optimization During Nd:YAG Laser Microgrooving of Titanium Alloy. In: Kumar M., Pandey R., Kumar V. (eds) Advances in Interdisciplinary Engineering. Lecture Notes in Mechanical Engineering.

- Springer, Singapore, Chapter 5, ISBN:978-981-13-6576-8Scopus
- 6. Panda A., Das S.R., Dhupal D. (2019) Statistical Analysis of Surface Roughness Using RSM in Hard Turning of AISI 4340 Steel with Ceramic Tool. In: Shanker K., Shankar R., Sindhwani R. (eds) Advances in Industrial and Production Engineering. Lecture Notes in Mechanical Engineering. Springer, Singapore, Chapter 3, ISBN:978-981-13-6411-2**Scopus**
- 7. PankajCharan Jena, BarsaraniPradhan, SudhansuRanjan Das, and D. Dhupal, (2019) Experimental Investigation on ECMM With Nimonic75 Alloy for ProstheticComponent.In: Kaushik Kumar, J. Paulo Davim (eds.) Design, Development, and Optimization of Bio-Mechatronic Engineering Products. IGI Global, Chapter 6, ISBN: 9781522582359**Scopus**
- 8. SudhansuRanjan Das, Asutosh Panda, "Engineering Mechanics", Airwalk Publications, ISBN: 978-9388084321, (2019).
- 9. SudhansuRanjan Das, "Fluidized bed-hot abrasive jet machining (FB-HAJM) of alumina ceramic", Lambert Academic Publishing, ISBN: 978-3-659-79164-2, (2018).
- 10. Sahu S.K., NaikS., Das S.R., Dhupal D. (2019) Parametric Optimization of Surface Roughness and Overcut in Electric Discharge Machining of Al-SiC Using Copper Electrode. In: Chattopadhyay J., Singh R., Prakash O. (eds) Renewable Energy and its Innovative Technologies. Springer, Singapore, Chapter 9,ISBN: 978-981-13-2116-0.**Scopus.**
- 11. Jena J., Panda A., Behera A.K., Jena P.C., Das S.R., DhupalD. (2019) Modeling and Optimization of Surface Roughness in Hard Turning of AISI 4340 Steel with Coated Ceramic Tool. In: Chattopadhyay J., Singh R., Prakash O. (eds) Innovation in Materials Science and Engineering. Springer, Singapore, Chapter 15, ISBN:978-981-13-2116-0**Scopus**

16. Paper Published

The faculty members of the University have published 405 research papers in reputed journals and conferences during 2019-20.

Title of the Paper	Name of Author	Title of journal
7-Hexyloxy-3-[4'-(3-methylbutyloxy) phenyl]-4H- 1-benzopyran-4-one: Study of Smectic behaviour and UV absorption profile	P. Lakshmi Praveen	Molecular Crystals Liquid Crystals
A Certain Class of Deferred Weighted Statistical B-Summability Involving (p; q)- Integers and Analogous Approximation	Amjed Zraiqat, S. K. Paikray and H. K. Dutta	Filomat
A certain class of statistical deferred weighted A-summability based on (p; q)-integers and associated approximation theorems	L. N. Mishra, M. Patro, S. K. Paikray and B. B. Jena	Applications and Applied Mathematics
A certain class of statistical probability convergence and its applications to approximation theorems	H. M. Srivastava, B. B. Jena and S. K. Paikray	Appl. Anal. Discrete Math.
A Certain Class of Weighted Statistical Convergence and Associated Korovkin Type Approximation Theorems Involving Trigonometric Functions	H.M. Srivastava, B.B. Jena, S. K. Paikray,U. K. Misra	Mathematical Method and Applied Sciences
A compact, ultrawide band planar antenna with modified circular patch and a defective ground plane for multiple applications	S. Hota, S. Baudha, B. B. Mangaraj, M. V. Yadav	Microwave Optical Technology Letter

A Comparative Study for Machining of Ti–6Al–4V Alloy for Multi-Criteria Response	Manisha Priyadarshini, Kamal Pal	Journal of Advanced Manufacturing Systems
A comparative study of stability characteristics of mahua and jatropha biodiesel and their blends	N. Acharya, P.Nanda & S. Panda	Journal of King Saud University – Engineering Sciences
A comparative study on laminated and randomly oriented Luffa-Kevlar Reinforced hybrid composites	Alok Behera,JANAKI DEHURY,M M Thaware	Journal of Natural Fibres
A Comparison of Machinability in Hard Turning of EN-24 Alloy Steel Under Mist Cooled and Dry Cutting Environments with a Coated Cermet Tool	A. Das, N. Tirkey, S.K. Patel, Sudhansu Ranjan Das, and B.B. Biswal	Journal of Failure Analysis and Prevention
A comprehensive review on soft computing and signal processing techniques in feature extraction and classification of power quality problems	P. Ray, G. Budumuru and B.K.Mohanty	Journal of Renewable and Sustainable Energy
A detailed investigation on thermal and micro- structural properties of hexagonal boron nitride composites	D Mishra, S Mohapatra, A Satapathy	Materials today: proceedings
A Distributed Multi-event Ensnaring Scheme based on Scalar Leader Determination for Data Redundancy Minimization	S. B. B. Priyadarshini, Suvasini. Panigrahi	IEEE Consumer Electronics Magazine, IEEE
A higher-order polynomial shear deformation theory for geometrically nonlinear free vibration response of laminated composite plate	Swain PR, Adhikari B, Dash P	Mechanics of Advanced Materials and Structures
A hybrid chemical reaction-particle swarm optimisation technique for automatic generation control	B.Mohanty, P.K.hota	Journal of Electrical Systems and Information Technology
A Hybrid Mobile Call Fraud Detection Model using Optimized Fuzzy C-Means Clustering and Group Method of Data Handling-based Network	S.Subudhi, Suvasini Panigrahi	Vietnam Journal of Computer Science, Springer
A multi objective optimum design approach for rolling element bearing	S. Panda & S. N. Panda	International Journal on Interactive Design and Manufacturing
A Multiobjective Ideal Design of Rolling Element Bearing Using Metaheuristics	SN Panda, S Panda, P Mishra	Smart Computing and Informatics
A New Adaptive Maximum Power Point Controller for a Photovoltaic System	Raseswari Pradhan and B. Subudhi	IEEE transactions on Sustainable Energy
A New Hybrid Multifocus Image Fusion Model Using Single Optimum Gabor Filter.	S Agrawal, R Panda, S Kumari, L Dora, A Abraham	Revue d'Intelligence Artificielle
A new perspective on wind integrated optimal power flow considering turbine characteristics, wind correlation and generator reactive limits	M. Tripathy, Rajat Kanti Samal	Electric Power Systems Research
A Novel Approach Using Optimum Camera Actuation in Event Boundary Detection Method for Redundant Data Minimization	S. B. B. Priyadarshini, Suvasini. Panigrahi	Ain Shams Engineering Journal, Elsevier
A Novel Diagonal Class Entropy Based Multilevel Image Thresholding Using Coral Reef Optimization	S. Agrawal, R. Panda, and A. Abraham	IEEE Systems Man and Cybernetics, IEEE SMC, Systems
A novel distance metric for evaluating impact of wind integration on power systems	Rajat Kanti Samal, M. Tripathy	Renewable Energy
A Novel Dual Slot Circular Patch Antenna Design for Multi-band Applications	A. B. Sahoo, Guru Prasad Mishra, and B. B. Mangaraj	Microwave Review
A novel joint histogram equalization based image contrast enhancement	S. Agrawal, R. Panda, P.K. Mishra and A. Abraham	Computer and Information Sciences , Elsevier
A Novel Model for Stock Price Prediction using Hybrid Neural Network	S.Das, S.N.Mishra, Manas Ranjan Senapati	IEIB, Springer

A novel modified differential evolution algorithm optimized fuzzy proportional integral derivative controller for load frequency control with thyristor controlled series compensator	D.K. Sahoo, R K Sahu, G.T.C. Sekhar, S. Panda	Journal of Electrical Systems and Information Technology (Elsevier)
A novel multi-attribute decision making approach for selection of appropriate product conforming ergonomic considerations	PP Mohanty, SS Mahapatra, A Mohanty	Operations Research Perspectives
A Quadrigeminal Scheme based on Event Reporting Scalar Premier Selection for Camera Actuation in Wireless Multimedia Sensor Networks	S. B. B. Priyadarshini, Suvasini Panigrahi	Journal of King Saud University: Engineering Sciences, Elsevier
A reference-based multiobjective bacteria foraging optimization technique for QoS multicast routing	SP Sahoo, S Nayak, MR Kabat	Arabian Journal for Science and Engineering
A Review of Automated Methods for the Detection of Sickle Cell Disease"	P. Das, S. Meher, R. Panda, A. Abraham	IEEE Reviews in Biomedical Engineering, IEEE
A study on Erosion Performance Analysis of Glass-Epoxy Composites filled with Marble Waste using ANN	Subhrajit Ray, Arun Kumar Rout, A. K. Sahoo	U.P.B. Sci.Bull,, Series B
A study on erosion wear performance of Linz- Donawitz sludge filled polypropylene matrix composites	Abhilash Purohit and Alok Satapathy	Materials Science and Engineering
A survey on region based image fusion methods	B Meher, S Agrawal, R Panda, A Abraham	Information Fusion
Aluthge transform of operators on the Bergman space	C. Padhy, P. K. Jena, S. K. Paikray	Arab. J. Math.
An ANFIS estimator based data aggregation scheme for fault tolerant Wireless Sensor Networks	S. Acharya, C.R. Tripathy	Journal of King Saud University - Computer and Information Sciences
An Application of Data Mining Techniques for Flood Forecasting: Application in Rivers Daya and Bhargavi	B. K. Panigrahi, S. Das, T. K. Nath, Manas Ranjan Senapati	IEIB, Springer
An efficient redundant binary adder with revised computational rules.	Barik, R. K., Bhoi, B. K., & Pradhan, M.	. Computers & Electrical Engineering
An Improvement Intended for Multiple Crack Diagnosis Adopting Combo Artificial Intelligence Technique	Jajneswar nanda, Layatitdev Das & D.R. Parhi	International Journal of Engineering and Technology.
An investigation of dielectric material selection of RF-MEMS switches using Ashby's methodology for RF applications	M. K. Bonthu, A. K. Sharma	Microsystem Technologies, Springer
An Optimal Design of Super-Directive Dipole Linear Antenna Array Using Gravitational Search Algorithm and Large Perfect Reflecting Surface	S. K. Mohanty and B. B. Mangaraj	Recent Advances in Electrical & Electronic Engineering
An overview of advanced fiber reinforced polymer composites and its applications	Arun Kumar Rout, Jitesh Singh	Int. Journal of Mechanical and Production Engineering Research and Development
An overview on economic machining of hardened steels by hard turning and its process variables	Abhishek Anand, Ajay Kumar Behera, Sudhansu Ranjan Das	Manufacturing Review
Analytical approach assisted simulation study of Si, SiGe, and InP based BJT	M.R.Jena, A.K.Panda, G.N.Dash	International journal of nano electronics and materials
Application of Moth Flame Optimization Algorithm for AGC of Multi-Area Interconnected Power Systems	Ajit Kumar Barisal, and Deepak Kumar Lal	International Journal of Energy Optimization and Engineering (IGI Global Publication)

Bacterial Foraging Optimization Approach to Parameter Extraction of a Photovoltaic Module	B. Subudhi and Raseswari Pradhan	IEEE Transactions on Sustainable Energy 9 (1), 381-389,	
Biconcave Microstrip Antenna	Suvendu N. Mishra, D. Konhar, D. Mishra, R. K. Mishra	International Journal of Recent Technology and Engineering	
Biodiesel from Non-Edible Vegetable Oils: A Review on Engine Performance and Emission Characteristics	N. Acharya, P.Nanda & S. Panda	Nature Environment and Pollution Technology	
Biomedical applications of acrylic based nanohydrogels: A review	S. K. Swain and K. Prusty	Journal of Materials Science	
Block and Fast Block Sparse Adaptive Filtering for Outdoor Wireless Channel Estimation and Equalization	Harish Kumar Sahoo, B.Mohanty,B.Pattnaik	Wireless Personal Communications(Springer)	
Carbon Nanomaterials Reinforced Epoxy Composites: A Review	S. Gantayat, D. Rout, and S. K. Swain	Polymer-Plastic Technology and Engineering	
Comparative performance analysis of 2DOF state feedback controller for automatic generation control using	K.S Simhadri, B.Mohanty	Opttimal control and applications	
Comparative study of different converter with its controller for grid connected WECS with PMSG	S. Behera, M. Jyotiranjan,	IJEOE, IGI Global publisher	
controller with filter controller for automatic generation control	Achyut K. Panda	Environ Prog Sustainable Energy	
Cooperative Navigation Planning of Multiple Mobile Robots Using Improved Krill Herd	D. Chandrasekhar Rao, Manas R. Kabat, Pradipta K. Das & Prabir K. Jena	Arabian Journal for Science and Engineering	
Cost and emission additionality of wind energy in power systems	Rajat Kanti Samal, M. Tripathy	Sustainable Energy, Grids and Networks,	
Cost savings and emission reduction capability of wind-integrated power systems	Rajat Kanti Samal, M. Tripathy	International Journal of Electrical Power & Energy Systems	
Creating More Efficient Distributed Cameras: A Distributed Multievent Ensnaring Scheme Based on Scalar Leader Determination	Sushree Bibhuprada B. Priyadarshini ; Suvasini Panigrahi	IEEE Consumer Electronics Magazine	
Deferred Cesaro statistical probability convergence and its applications to approximation theorems	H. M. Srivastava, B. B. Jena and S. K. Paikray	J. Nonlinear Convex Anal.	
Deferred Weighted A-Statistical convergence based upon (p, q)-Lagrange polynomials and its' Appliocation to Approximation Theorems	H.M. Srivastava, B.B. Jena, S. K. Paikray, U. K. Misra	Journal of Applied Analysis	
Degree of approximation by product summability of Fourier series of a signal belonging to Lipschitzs class	P. Parida, S. K. Paikray, M. Dash, U. K. Misra	TWMS (Turkic World Mathematical Society)	
Delamination of Mg-Al Layered Double Hydroxide on Starch: Change in Structural and Thermal Properties	S. K. Swain, S. Barik, G C Pradhan and L. Behera	Polymer-Plastics Technology and Engineering	
Design of a new prototype of a MLI	S Sekhar, Raseswari Pradhan, S Mohanty	International Journal on Recent Technology and Engineering	
Design of optimal high pass and band stop FIR filters using adaptive cuckoo search algorithm	S.K. Sarangi, R. Panda , A. Abraham	Soft Computing	
Designing of epoxy matrix by chemically modified multiwalled carbon nanotubes	S. Gantayat, N. Sarkar, G. Prusty, D. Rout, and S. K. Swain	Advances in Polymer Technology	
Detection of Automobile Insurance Fraud using Feature Selection and Data Mining Techniques	S.Subudhi, Suvasini. Panigrahi	International Journal of Rough Sets and Data Analysis (IJRSDA), IGI Global	

Detection of vowel in speech signal degraded by Speech like Noise	A Kumar, S Sahanawazuddin, S Garnaik	NCC Conference,	
Determination of Layerwise Material Properties of Composite Plates Using Mixed Numerical Experimental Technique	Asim Kumar Mishra, Sushanta Chakraborty	Inverse Problems in Science and Engineering	
Development and Characterization of Al2O3 and SiC Reinforced Al-Cu Metal Matrix Hybrid Composites	Bishnupriya Behera, Renuprava Dalai, Dinesh Kumar Mishra, S.K. BadJena		
Development and characterization of glass/polyester composites filled with industrial wastes using statistical techniques	Subhrajit Ray, Arun Kumar Rout, A. K. Sahoo	Indian Journal of Engineering & Material Science	
Differential evolution algorithm optimized dual mode load frequency controller for isolated wind-diesel power system with SMES & fuel cell	Deepak Kumar Lal, A. K. Barisal, and M. Tripathy	Recent Advances in Electrical and Electronic Engineering (Bentham Science Publications)	
Differential evolution algorithm tuned tilt integral derivative controller with filter controller for automatic generation control	R.K.Sahu, G.T.C. Sekhar, S.Priyadarshani	Evolutionary Intelligence (Springer)	
Direct and electromagnetically coupled compact microstrip antenna design with modified fractal DGS	G. P. Mishra, A. B. Sahoo, Smeeta Hota, B. B. Mangaraj	International Journal of RF and Microwave Computer-Aided Engineering	
Discrete fourier transform based Vowel Onset Point Detection Using Spectral Peaks Energy	A Das, S Garnaik	IEEE Conference	
Dislocation Interaction and V-Shaped Growth of the Distorted Structure During Nanoindentation of Cu20Ni20Al20Co20Fe20 (high-entropy alloy)-Coated Copper: A Molecular Dynamics Simulation-Based Study	Dinesh Kumar Mishra, Md. Meraj, S.K. BadJena, Snehanshu Pal	Transaction Indian Institute Metals	
Dry sliding wear characteristics of epoxy composites filled with steel industry slag and sludge particles: A comparative study	Abhilash Purohit and Alok Satapathy	Materials Today	
Dry turning of AISI D3 steel using a mixed ceramic insert: A study	Debabrata Rath,Sumanta Panda and Kamal Pal	Proc IMechE Part C: J Mechanical Engineering Science	
Duality of control problems in general Banach	P.K. Behera, S.K. Padhan and C. Nahak	International Journal of Operational Research	
Duality of variational problems with a new approach	S.K. Padhan	RAIRO-Oper. Res.	
Dynamic Investigation of FRP Cracked Beam Using Neural Network Technique	Pankaj Charan Jena, Dayal R. Parhi and G. Pohit	Journal of Vibration Engineering & Technologies	
Dynamic stability study on an exponentially tapered rotating asymmetric sandwich beam under the action of a pulsating axial load with variable temperature gradient	M Pradhan and P R Dash	Journal Of Aerospace Sciences & Technologies	
Effect of carbon/glass fiber symmetric inter-ply sequence on mechanical properties of polymer matrix composites	D.K. Jesthi, P. Mandal, Arun Kumar Rout, R.K. Nayak	Procedia Manufacturing	
Effect of Catalyst Bed Height on the Yield and Composition of Non-edible Seed Pyrolytic Oil	Gaurav Chatterjee, Krushna Prasad Shadangi, Kaustubha Mohanty	Waste and Biomass Valorization	
Effect of perforation on exhaust performance of a turbo pipe type muffler using methanol and gasoline blended fuel: A step to NOx control	Mishra, P.C., Kar, S.K., Mishra, H.	Journal of Cleaner Production	
Effect of Polyaniline-Coated Carbon Nanotube and Nanosilver Hybrid Nanoparticles on the Dielectric Properties of Poly(Methyl Methacrylate) Nanocomposites	Sahu, S., Sahoo, A.P., Shubhadarshinee, L., Ramakrishna, D.S. and Barick, A.K.*	Polymer Composites	

Effects of flexible bottom on radiation of water waves by a sphere submerged beneath an ice-cover	L. Das and S. Mohapatra	Meccanica, Springer	
Emission and friction analysis of IC engine running in methanol blend	Gupta, A., Mishra, P.C.	Tribology in Industry	
Enhancement of mechanical and specific wear propeties of glass/carbon fiber reinforced polymer hybrid composite	D.K. Jesthi, P. Mandal, Arun Kumar Rout, R.K. Nayak	Procedia Manufacturing	
Erosion wear response of epoxy composites filled with steel industry slag and sludge particles: A comparative study	Abhilash Purohit and Alok Satapathy	Materials Science and Engineering	
Estimating wind speed probability distribution based on measured data at Burla in Odisha, India	Rajat Kanti Samal, M. Tripathy	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	
Evaluation of mechanical properties of functionalized carbon nanotube reinforced PMMA polymer nanocomposite	Narasingh Deep, Punyapriya Mishra	Karbala International Journal of Modern Science	
Experimental analysis of a standalone solar photo voltaic cell for improved power quality	A Mohanty, PK Ray, M Viswavandya, S Mohanty, PP Mohanty	Optik	
Experimental Analysis of Wire EDM Process Parameters for Micromachining of High Carbon High Chromium Steel by Using MOORA Technique	Sarat Kumar Sahoo,Sunita Singh Naik,Jaydev Rana	Micro and Nano Machining of Engineering Materials	
Experimental investigation, modelling and optimization in hard turning of high strength low alloy steel (AISI 4340)	A. Panda, Sudhansu Ranjan Das, & D. Dhupal	Matériaux & Techniques	
Fingerprint Based Vehicle Security and Control	S. Behera, D. Mahanta, O. Anshuman, D. Oram,	IJCAR	
Frequency mode identification using modified masking signal based Empirical Mode Decomposition	Papia Ray, Rajesh Kumar Lenka and Monalisa Biswal	IET,GTD	
Friction stir welding of polypropylene sheet	Sahu SK, Mishra D, Mahto RP, Sharma VM, Pal SK, Pal K, Banerjee S, Dash P	Engineering Science and Technology, an International Journal	
Fuel properties and composition study of Cassia siamea seed crude pyrolytic oil and char	Gaurav Chatterjee, Krushna Prasad Shadangi, Kaustubha Mohanty	Fuel	
Generalizedequi-statistical convergence of the deferred Nörlundsummability and its applications to associated approximation theorems	H.M. Srivastava, B.B. Jena, S. K. Paikray,U. K. Misra	RACSAM	
Geometrically nonlinear free vibration analysis of laminated composite plates: A finite element assessment of a higher order non-polynomial shear deformation theory	Adhikari, B, Dash P	Mechanics of Advanced Materials and Structures	
Gray Level run length matrix based on various illumination normalization techniques for texture classification	Sonali Dash, Manas Ranjan Senapati	Evolutionary Intelligence	
Hard Turning of HSLA Steel with Coated Ceramic Inserts: An Assessment, Modelling, Optimisation and Cost Analysis	A. Panda, Sudhansu Ranjan Das, & D. Dhupal	International Journal of Automotive and Mechanical Engineering	
Hard Turning of HSLA Steel with Coated Ceramic Tool Based on Evaluation of Surface Roughness, Tool Wear, Chip Morphology and Economic Analysis	A. Panda, Sudhansu Ranjan Das, J.P. Davim, & D. Dhupal	Journal of Manufacturing Technology Research	
h-BN huddled starch reinforced Polyethylhexylacrylate\Polyvinyl alcohol thin films for packaging applications	K. Prusty and S. K. Swain	Polymer Composites	

Hybrid IWD-DE: A Novel Approach to Model Cooperative Navigation Planning for Multi-robot in Unknown Dynamic Environment	D. Chandrasekhar Rao, Manas R. Kabat, Pradipta K. Das & Prabir K. Jena	Journal of Bionic Engineering
Hydro-elastic wave proliferation over an impermeable seabed with bottom deformation	M.R. Sarangi and S. Mohapatra	Geophysical and Astrophysical Fluid Dynamics, Taylor & Francis
Identification of Flood vulnerable zones in Mahanadi Delta based on post-Hirakud Historical data	Anil Kumar Kar, Krishna Kumar Gupta, Joy Gopal Jena and Dipti Ranjan Jena	International Journal of Water
Impact of Policy Reforms on the Productivity Growth of Indian Coal Mining: A Decomposition Analysis.	Auro Kumar Sahoo, Naresh C. Sahu and Dukhabandhu Sahoo	Resources Policy
Improved grey wolf optimization technique for fuzzy aided PID controller design for power system frequency control	BP Sahoo, S Panda	Sustainable Energy, Grids and Networks - Journal - Elsevier
Improving Energy Efficiency in Buildings through Responsible Design: Optimizing Use and Careful Selection of Building Materials	Madhumita Roy & Bharati Mohapatra	Encyclopedia of Renewable and Sustainable Materials
Intelligence Scheme for Fault Location in a Combined Overhead Transmission Line & Underground Cable	P. Ray, S. Arya, D.Mishra	International Journal of Emerging Electric Power Systems
Inverse Determination of Local Variations of Constituent Level Elastic Parameters of FRP Composite Plates	Asim Kumar Mishra, Sushanta Chakraborty	Inverse Problems in Science and Engineering
Investigating Machinability in Hard Turning of AISI 52100 bearing steel through performance measurement: QR, ANN and GRA study	A.K. Panda, A.K. Sahoo, I.Panigrahi and A.K. Rout	Int.journal of Automotive and Mechanical Engineering
Investigation of mechanical and abrasive wear behavior of blast furnace slag-filled needle-punched nonwoven viscose fabric epoxy hybrid composites	PK Patnaik, PTR Swain, S Biswas	Polymer Composites
Investigation on controlling the process parameters for improving the quality of investment cast parts	Sarojrani Pattnaik	Journal of the Brazilian Society of Mechanical Sciences and Engineering
Investigation on the effects of versatile deformating bed on a water wave diffraction problem	M.R. Sarangi and S. Mohapatra	Ocean Engineering, Elsevier
K-NN based automated reasoning using bilateral filter based texture descriptor for computing texture classification	Sonali Dash, Uma Ranjan Jena, Manas Ranjan Senapati,	Egyptian Informatics
Laser Beam Micro Drilling- a Review	Pattanaik S., Panda,S.	Lasers in Manufacturing and Materials Processing
Load Frequency Control of Multi Source Multi- Area Nonlinear Power System with DE-PSO Optimized Fuzzy PID Controller in Coordination with SSSC and RFB	Deepak Kumar Lal, A. K. Barisal, and M. Tripathy	International Journal of Control and Automation (SERSC Australia Publications)
Low voltage ride through capability enhancement in a grid-connected wind/fuel cell hybrid system via combined feed-forward and fuzzy logic control, DOI: 10.1049/ietgtd.2019.0021	Amit Kumar Roy, Prasenjit Basak, and Gyan Ranjan Biswal	IET Generation Transmission and Distribution
Manufacturing and Study of Thermo- Mechanical Behaviour of Surface Modified Date Palm Leaf/Glass Fiber Reinforced Hybrid Composite	PTR Swain, SN Das, SP Jena	Materials Today: proceedings
MFO Optimised Fractional Based Controller on Power System Stability	B.D.Rout, B.B. Pati	Proceedings of Engineering and Technology Innovation,

Miniaturised microstrip patch design based on highly capacitive defected ground structure with fractal boundary for X-band microwave communications	G. P. Mishra and B. B. Mangaraj	IET Microwaves, Antennas & Propagation
Modified SCA Algorithm for SSSC Damping controller Design in Power System	B.D.Rout, B.B. Pati, S.Panda	ECTI Transaction on Electrical Engg.Electronics and Communications
Monitoring of friction stir welding for dissimilar Al 6063 alloy to polypropylene using sensor signals	Santosh K.Sahu, Raju P. Mahto, Kamal Pal Padmanav Dash	The International Journal of Advanced Manufacturing Technology
Moth-flame optimization algorithm optimized dual-mode controller for multiarea hybrid sources AGC system	B.Mohanty,B.V.S Acharyulu, P.K.hota	Opttimal control and applications
Multi-objective Optimization of Pulsed Gas Metal Arc Welding Process Using Neuro NSGA-II	Kamal Pal Surjya K. Pal	J. Inst. Eng. India Ser. C
Nano Silver Decorated Polyacrylamide/Dextran Nanohydrogels hybrid composites for Drug Delivery Applications	K. Prusty and S. K. Swain	Materials Science & Engineering: C
Nano silver embedded starch hybrid graphene oxide sandwiched poly(ethylmethacrylate) for packaging application	F. Mohanty and S. K. Swain	Nano-Structures & Nano- Objects
Nano silver imprinted graphene oxide as catalyst in reduction of 4-nitrophenol	D. Sahu, N. Sarkar, G. Sahoo, P. Mohapatra, and S. K. Swain	Journal of Physical Organic Chemistry
Nanostructured Chitosan Composites for Cancer Therapy: A Review	K. Prusty and S. K. Swain	International Journal of Polymeric Materials and Polymeric Biomaterials
Nanostructured gold dispersed polyethylmethaacrylate/dextran hybrid composites for packaging applications	K. Prusty and S. K. Swain	Polymer-Plastic Technology and Engineering
Natural convection cooling of an infrared suppression (IRS) device with cylindrical funnels	Mohanty A, Dash S K, Roy S	International journal of thermal sciences
Nested cross-validation based adaptive sparse representation algorithm and its application to pathological brain classification	L. Dora, S. Agrawal, R. Panda, A. Abraham	Expert Systems with Applications, Elsevier,
Niger Seed Thermal Pyrolysis: Characterization of Aqueous Phase Pyrolytic Liquid and Char	Krushna Prasad Shadangi, Kaustubha Mohanty	SSRN-Elsevier
On approximation of functions in the generalised Zygmund class via Product summability means of conjugate Fourier series	T. Pradhan, S. K. Paikray, A. A. Das, Hemen Dutta	Proyecciones Journal of Mathematics
On the possibility of linear polarization in elliptical microstrip patch antenna	Suvendu N. Mishra, D. Konhar, D. Mishra, R. K. Mishra	Microw Opt Technol Lett.
Operational Matrices from a Frame and their Applications in Solving Boundary Value Problems with Mixed Boundary Conditions,	Mahendra Kumar Jena and Kshama Sagar Sahu	International Journal of Applied and Computational Mathematics
Optimal allocation of agricultural land for crop planning in Hirakud canal command area using swarm intelligence techniques	A. Rath and P. C. Swain	ISH Journal of Hydraulic Engineering
Optimisation of emission characteristics of petrol engine running on alternate fuel and fitted with chambered type muffler: Combined CFD and experimental methods	Gupta, A., Mishra, P.C	Oxidation Communications
Optimisation of WEDM process parameters during machining of HCHCr steel using TOPSIS method	Sarat Kumar Sahoo,Sunita Singh Naik,Jaydev Rana	International Journal of Process Management and Benchmarking
Optimization of emission characteristics of spark ignition engine with chambered straight muffler running in methanol blend:An engine	Gupta, A., Mishra, P.C.	Journal of Cleaner Production

development technique for environmental sustainability		
Optimization of Process Parameters in Laser Microgrooving of Alumina Ceramic using Genetic Algorithm	D. Dhupal, S.R. Dixit, Sudhansu Ranjan Das,	UBS Scientific Bulletin: Series D, Mechanical Engineering
Optimization of the process parameters of D2 steel on EDM using grey relational analysis	Sunita Singh Naik, Jaydev Rana	International Journal of Mechanical Engineering and Technology
Parametric optimization of Nd:YAG laser microgrooving on aluminum oxide using integrated RSM-ANN-GA approach	S.R. Dixit, Sudhansu Ranjan Das, & D. Dhupal	Journal of Industrial Engineering International
Parametric Optimization of Surface Roughness and Overcut in ElectricRoughness and Overcut in Electric Discharge Machining of Al-SiC Using Copper Electrode	Sambeet Kumar Sahu, Subhasree Naik, Sudhansu Ranjan Das sand Debabrata Dhupal	Springer Nature Singapore Pte Ltd
Parametric Stability Analysis of a Parabolic- Tapered Rotating Beam Under Variable Temperature Grade	R R Chand, P K Behera, M Pradhan and P R Dash	Journal of Vibration Engineering & Technologies
Performance analysis of moth flame optimization algorithm for AGC system	B.Mohanty	International Journal of Modelling and Simulation
Performance of CSA optimized controllers of DFIGs and AGC to improve frequency regulation of a wind integrated hydrothermal power system	S. Chaine, M.Tripathy	Alexendria Engineering Journal
Performance, emission, energy, and exergy analysis of CI engine using Kaner seed pyrolysis oil blended diesel	Achyut K. Panda	Environ Prog Sustainable Energy
Physical, Mechanical, and Erosion Characterization of Palm Leaf Stalk Fiber Reinforced Epoxy Composites Filled with PLSS	Jnanaranjan Kar, Arun Kumar Rout and A.K. Sutar	BioResources
Process Parameter Optimization of hydrostatic extrusion using Metaheuristic	S. Panda D. Mishra	Journal of Advanced Manufacturing Systems
Protection Coordination in Microgrid using fault current limiters	T. Sinha, P.Ray and S.S.Reddy	Journal of Green Engineering
Pyrolytic conversion of protein rich microalgae Arthrospira platensis to bio-oil	Achyut K. Panda	Research Journal of Chemistry and Environment
Quantum and Thermodynamics Estimation of Mesostate Behaviour of Alkyl Benzoic Acids in Dielectric Medium: Comaprative Study	P. Lakshmi Praveen	Arabian J. Science & Engineering
Reduced switch technique for solar PV systembased Multilevel Inverter for PQ improvement	V. Rajgopal, V. Nagamalleswari, Papia Ray, S. R. Arya and J. Bangarraju	International Journal of Emerging Electric Power Systems
Remote Speed Control of BLDC Motor with Display	Sasmita Behera, Prabhat Ku. Muduli,	International Journal of Automation and Smart Technology (AUSMT)
Sandwich structured starch grafted polyethylhexylacrylate/polyvinylalcohol thin films	K. Prusty, P. K. Sethy, and S. K. Swain	Advances in Polymer Technology
Second and higher order duality of variational problems in general Banach Spaces	P.K. Behera, S.K. Padhan and R.N. Mohapatra	Panamer. Math. J.
Silver Nanoparticles Decorated Polyethylmethacrylate/Graphene Oxide Composite: As Packaging Material	F. Mohanty and S. K. Swain	Polymer Composites
Smart Plugs: Paradigms and Applications in the Smart City-and-Smart Grid	Nagender Kumar Suryadevara and Gyan Ranjan Biswal	Energies, MDPI

Solvent Polarity and Chain Length Effects in Thermotropic Mesophase Formation Process: Comparative Quantum and Thermodynamic Approaches	Punyatoya Das, and P. Lakshmi Praveen	Journal of Molecular Liquids	
Stability analysis of a tapered symmetric sandwich beam resting on a variable pasternak foundation	M Pradhan, P R Dash, M K Mishra and P K Pradhan	International Journal Of Acoustics And Vibration	
Stability Improvement of Isolated Wind-Diesel System with Optimized STATCOM Controller	S. Behera, M.C.P. Sahoo,	IJCA , SERSC publisher	
Stability Study of a Sandwich Beam with Asymmetric and Non-uniform Configuration Supported Viscoelastically Under Variable Temperature Grade	M Pradhan and P R Dash	Journal of Vibration Engineering & Technologies	
Statistical deferred Cesarosummability and its applications to approximation theorems	B.B. Jena, S. K. Paikray, U. K. Misra	Filomat	
Statistical deferred weighted B-summability and its applications to associated approximation theorems	T. Pradhan, S. K. Paikray, B. B. Jena, Heman Dutta	Journal of Inequality and Applications	
Structural evolution and dislocation behaviour study during nanoindentation of Mo20W20Co20Ta20Zr20 high entropy alloy coated Ni single crystal using molecular dynamic simulation	Dinesh Kumar Mishra, Md. Meraj, S.K. BadJena, Snehanshu Pal	Molecular Simulation	
Synthesis of soy protein/polyacrylamide nanocomposite hydrogels for delivery of ciprofloxacin drug	K. Prusty, A. Biswal, S. B. Biswal, and S. K. Swain	Materials Chemistry and Physics	
Synthesis, mechanical and thermal properties of carbon black/epoxy composites	Tanusree Bera, SK Acharya, Punyapriya Mishra	International Journal of Engineering, Science and Technology	
Tauberian theorems for Cesàrosummability of nth sequences	P. Parida, S. K. Paikray, H. Dutta, B. B. Jena, M. Dash	Filomat	
The effect of reduced graphene oxide intercalated hybrid nanoclay on the dielectric properties of polyvinylidene fluoride nanocomposite films	G. Sahoo, N. Sarkar, and S. K. Swain	Applied Clay Science	
Theoretical Model of a Nematogen: Estimation of Phase Stability, Absorption, Electrochemical, and Nonlinear Optical Properties	P. Lakshmi Praveen	Molecular Crystals Liquid Crystals	
Theoretical Study on Ultraviolet Profile and Reactivity Descriptors of Fluorinated Liquid Crystals: Effect of End Chain Length and Substituent	P. Lakshmi Praveen	Molecular Crystals Liquid Crystals	
Thermo-catalytic degradation of different plastics to drop in liquid fuel using calcium bentonite catalyst	Achyut K. Panda	International Journal of Industrial Chemistry	
Three-Dimensional Rice Straw Structured Magnetic Nanoclay Decorated Tri-polymeric Nanohydrogels as Superabsorbent of Dye Pollutants	N. Sarkar, G. Sahoo, R. Das, and S. K. Swain	ACS Applied Nano Materials	
Tracking of power quality disturbances using sparse model–based extended Kalman filters	Harish Kumar Sahoo,U.Subudhi,S.Mi shra	Adaptive Control and Signal Processing(Wiley)	
Tribo-mechanical performance of glass-epoxy hybrid composites filled with marble powder with Taguchi Design and ANN	S Ray, Arun Kumar Rout, A.K. Sahoo	Composites: Mechanics, Computations, Applications: An International Journal	
Truncated hexagonal bi-pyramidal gallium ferrite nanocrystals: integration of structural details with visible-light photo-activity and self-cleaning Properties	M Mishra, I Mukherjee, AK Mall, A Mitra, Sukalyan Dash, S Chatterjee, S Mukherjee, A Roy	Journal of Materials Chemistry A, DOI: 10.1039/c8ta02749h	

Tuning commercial diesel to microemulsified and blended form: phase behavior and implications	B Acharya, S Dash	Journal of Dispersion Science and Technology
Two-degree-of-freedom multi-input multi-output proportional—integral—derivative control design: Application to quadruple-tank system	Jatin Kumar Pradhan, Arun Ghosh, Chandrashekhar Narayan Bhende	Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering
Using TOPSIS method to optimize the process parameters of D2 steel on electro-discharge machining	Sunita Singh Naik, Jaydev Rana, Prasanta Nanda	International Journal of Mechanical Engineering and Technology
Workspace optimization of 3R manipulator-a multi-objective approach	Panda S., Mishra, D., and Biswal, B. B	Int. J. Intelligent Machine and Robotics
	I nayak	IAENG Int5. j. of applied mathematics

17. CONFERENCE HELD

	TEQIP CUNDUCTED TRAINING PROGRAMME				
Sl					
No.	Dept	Training mode	Title of training	From	То
01	Production	Workshop	ОТАМ	15-01-2019	19-01-2019
02	Chemical	Workshop	MSDAER-2019	28-01-2019	01-02-2019
03	Civil	Workshop	Life Skill Management	07-02-2019	12-02-2019
04	Civil	Workshop	Water Urbanism	12-03-2019	16-03-2019
05	Mechanical	Workshop	AOTAMP-2019	25-03-2019	30-03-2019
06	Physics	Conf.	NCFAM-2019	27-07-2019	28-07-2019
07	EE	Conf.	NCGTR	19-10-2019	20-10-2019
			Design and Development of Materials for technological		
08	Physics	FDP/Workshop	Applications	21-10-2019	26-10-2019
			Modeling & Simulation		
09	EE	STC	Electrical System using Matlab Simulation	28-10-2019	02-11-2019
			Tractad Difficultion	20 10 2017	02 11 2017
10	EE	Workshop	MEPSN	05-08-2019	10-08-2019
11	Chemistry	National Conf.	RAIMS - 2019	24-12-2019	25-12-2019
12	Mathematics	Int. Conf.	ICAMC - 2020	07-02-2020	08-02-2020

18. CONSULTANCY PROJECTS IN HAND

SL. No	Consultancy work	Aganay	Amount (Rs)
1	Testing of Civil Engg. Materials	Agency	40,00,000
	Structural vetting prposed Kalyan Mandap	••••	10,00,000
2	Khorda Municipality	Khorda Municipality	23,600
	Proof Checking checking maneswar	1 3	,
_	platform,		
3	Bhubaneswar	Aankhe Engineers LLP	27140
4	Proof Checking checking of existing FOB	Aankhe Engineers LLP	35,400
5	Proof checking 50000 ltr capacity RCC	Purna chandra swain, Sundargarh	11,800
6	For Railway Building Vertting	Novus Arc design pvt Ltd	30,090
7	NDT Test Provision of Road under Bridge (RUB)/LHS at Titlagarh	Asst Divisional Engineer, E.Co.Rly Titlagarh	1,12,000
8	Regarding vetting of design and drawing for differenct project in Bijepur	Executive Officer Bijepur, Bargarh	94,400
9	Regarding vetting of structural design NAC Bargarh	Spire Consultant, Bhubaneswar	1,29,800
10	Proof checking of 14 nos Type-V Quarters (Gat AIIMS,bhubaneswar	Jaisai Associate, Bhubaneswar	42,646
11	Regarding vetting of design and drawing for different project in Bijepur	NAC, Bijepur	94,400
12	For conducting Ultrasonic Pulse Test and Test Reboubnd hammer test	Hindalco Industries Limited	3,30,400
13	Conducting Non-destrutive test to evaulate the concrete quality Chiminey at GTC	Hindalco Industries Limited	3,30,400
14	C/o Trauma center at AIIMs ,Bhubaneswar proof checking	Executive Engineer AIIMS Project Division CPWD Bhubaneswar	71,414
15	Vetting of Structural Construction of Kalyan Manda at ATTABIRA NAC	Executive officer Attabira NAC	23,600
		Total De	53,57,090
		Total Rs	55,57,090

19. START-UPS AND INNOVATION

The Indian Space Research Organisation Chairman, Dr. K.Sivan has announced the establishment of Innovation-cum-Incubation Centre in VSSUT campus in January, 2019. The construction of the Centre has already been completed with the assistance from State Govt. and ISRO.

20. LINKAGE WITH INDUSTRY

The University has linkage with nearby industries and organizations. The dignitaries from industries have been inducted as member in various activities of the departments and University. The courses of studies have been designed according to the suggestions received from industries considering the present day of changing world. Two nos. of Executive B.Tech. programmes have been offered by the University with the assistance from HINDALCO. The University has linkage with the following industries:

- a) Mahanadi Coalfields Limited
- b) HINDALCO
- c) Aditya Alumina Ltd
- d) Bhusan Steel Limited
- e) NALCO
- f) Tata Refractories Limited
- g) IB Thermal
- h) OHPC

21. COLLABORATIVE ACTIVITIES

Sl		Name of the Prinicipal and	
No.	Title of the Project	Co - Investigation	Deparment
1	Synthesis and characterization of ternary multiferroic ceramic composites for memory device application	Mohapatra Prakash Kumar Sahoo	Physics
2	Synthesis and Characterzation of A- site and B - site modified SrTiO3 ceramics	Akhyaya Kumar Pattanaik	Physics
3	Bio - ceramic radar absorbing material for stealth applications	Ganeswar Nath	Physics
4	Design and Development of Rare earth modified Multiferroic Ceramics	Piyush Ranjan Das	Physics
5	Some Studies on Complex Hamiltonian in Two - dimension for Classical Integrable Systems	Jasvinderpal Singh Virdi	Physics
6	Recent Developments of Ferroelectric Ceramics for Device Application	Parbati Naik	Physics
7	Fabrication and Characterzation of application based smart materials	Sunanda Kumari Patri	Physics
8	Socio-economic and Health Impact of Burla Canal on local Inhabitants	Auro Kumar Sahoo	Humanities
9	Automatic Time Series Forecastin using Evolutionary Neural Network	H.S. Behera	IT
10	Secure sharing of medical images using watermarking technique	Kshiramani Naik/ Alina Dash	IT
	Visual Perceptio and EEG Based robot control and application using Computational Intelligent		
11	for physical challengeable person Similarity Analysis and Item Grouping using	Pradipta Kumar Das	IT
12	various Hybridized Data Mining Techniques	Gyanaranjan Shial	IT
13	Development of Novel Approach for Recognition and Grading of Fruits using Image Processing and computer Intelligence.	Mrs.Santi Kumari Behera Asst. Professor, CSE	CSE
14	Dynamic Slicing based test case prioritiztion for regression testing t design phase of software development	Mrs.Alina Mishra Asst. Professor, Cse	CSE

	Degradation of industrial pollutants using dye sensitization and bio - mediated doped		
15	photo - catalysts	Amit Kuamr Behera	Chemical
	Recycling of Waste Engine Oil (WEO) by		
	solvent		
16	extraction - adsorption methgod	Nivedita Patel	Chemical
	Development of a process fro the removal		
17	of Chromium (VI) from waste water using	Vanahna Dagad Chadanai	Chamical
17	adsorption techniques	Krushna Prasad Shadangi	Chemical
	Development and characterization of nanoemulsion for		
18	biodedical application	Veda Prakash	Chemical
19	Removal of Heavy Metals from Fly Ash	Anil Kumar Murmu	Chemical
	Effect of particle size of Vitamin E Nano -		
20	emulsions on its antimicrobial activity	Lipika Parida	Chemical
	High speed pulsed gas tungsten are welding		
	using	G K D !!	NO 45
21	oxideflux for automotive application	S. K. Badjena	MME
22	Improving productivity of boiler industries	Nilakantha Sahu	MME
22	using activated flux gas tungsten are welding Fabrication and characterization of CNT and	Miakainia Sanu	IVIIVIE
	B4 C		
	reinforced A1- Cu		
	metal matrix composites using the powder		
	metallurgy		
	route to study the effect of milling parameters and reinforcement composition on the		
	microstructure and mechanical properties		
23	of composites.	Dinesh Kuamr Mishra	MME
	Electrodeposition of hybrid composite of		
	coreshell		
24	structure and carbon nanotube on titanium substrate	Manila Mallik	MME
24		IVIAIIIIA IVIAIIIK	WINE
	Effect of Welding parameters on		
	microstructure, mechanical properties and electrochemical behavior of		
	GMAW Duplex		
25	stainlesssteels	Subhadra Sahoo	MME
	Comparative analysis of mechanical,		
	electrical, and wear resistance		
	properties of Cu -MWCNT composite with Cu- MWCNT-SiC		
	/Tic/AIN hybrid composite for heat sink		
	application prepared by powder metallurgy		
26	method	Renuprava Dalai	MME
	Distortion Theorem on Certain Subclasses of		
27	Bazilevic Function	Ashok Kuamr Sahoo	Mathematics
	Duality of multiobjective variational and		
20	control problems	C! W D !!	N/1-41
28	in Branch spaces	Saroj Kuamr Padhan	Mathematics

Synthesis and Characterization of Polyaniline/Graphene Quantum Dots Nanocomposites Aruna Kuamr Barick Chemistry		Design, Synthesis and Characterization of Polymer		
Polyaniline/Graphene Quantum Dots Nanocomposites Designing of some Biodgradable Graphene Reinforced Acrylic Polymeric Nanocomposites Films for 31 Packaging Applications Interaction of surfactants with polymers: A fluorescence spectroscopic study Adsorption of Dyestuffs from Organic media on 33 unmodified and modified silica Microwave assisted catalytic pyrolysis of waste plastics to fuel Anion sensing and hydrogelation by novel terpyridine 35 based transition metal complexes Design Synthesis of FRET Based Biological active Schiff base: 36 fluorescence Chemosensor for Zinc Ion Designing of Nanostructured materials for detection 37 of heavy metal ions Priyaranjan Mohapatra Chemistry Bigyan Ranjan Jali Chemistry Chemistry Trupti Ranjan Mahapatra/ Debu Mishra PE	29	•	Trinath Biswal	Chemistry
Designing of some Biodgradable Graphene Reinforced Acrylic Polymeric Nanocomposites Films for 31 Packaging Applications S. K. Swain Chemistry Interaction of surfactants with polymers: A fluorescence spectroscopic study Monalisa Mohapatra Chemistry Adsorption of Dyestuffs from Organic media on unmodified and modified silica Sukalayan Dash Chemistry Microwave assisted catalytic pyrolysis of waste plastics to fuel Achyut Kuamr Panda Chemistry Anion sensing and hydrogelation by novel terpyridine based transition metal complexes Pravin Kumar Kar Chemistry Design Synthesis of FRET Based Biological active Schiff base: 36 fluorescence Chemosensor for Zinc Ion Bigyan Ranjan Jali Chemistry Designing of Nanostructured materials for detection of heavy metal ions Priyaranjan Mohapatra Chemistry Optimal design of ceramic and nanoparticle filled laminated composite structure using hybrid (FEM and soft computing) technique: Trupti Ranjan Mahapatra/Debu Mishra PE				
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32 spectroscopic study		± *		
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34 waste plastics to fuel Achyut Kuamr Panda Chemistry	33	unmodified and modified silica	Sukalayan Dash	Chemistry
Anion sensing and hydrogelation by novel terpyridine 35 based transition metal complexes Design Synthesis of FRET Based Biological active Schiff base: 36 fluorescence Chemosensor for Zinc Ion Designing of Nanostructured materials for detection of heavy metal ions Optimal design of ceramic and nanoparticle filled laminated composite structure using hybrid (FEM and soft computing) technique: Trupti Ranjan Mahapatra/ Trupti Ranjan Mahapatra/ Debu Mishra PE		• • •		
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Design Synthesis of FRET Based Biological active Schiff base: 36 fluorescence Chemosensor for Zinc Ion Designing of Nanostructured materials for detection Optimal design of ceramic and nanoparticle filled laminated composite structure using hybrid (FEM and soft computing) technique: 38 Theoretical and experimental analysis Pravin Kumar Kar Chemistry				
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36 fluorescence Chemosensor for Zinc Ion Bigyan Ranjan Jali Chemistry				
Designing of Nanostructured materials for detection 37 of heavy metal ions Optimal design of ceramic and nanoparticle filled laminated composite structure using hybrid (FEM and soft computing) technique: Trupti Ranjan Mahapatra/ Debu Mishra PE	36		Bigyan Ranjan Jali	Chemistry
37of heavy metal ionsPriyaranjan MohapatraChemistryOptimal design of ceramic and nanoparticle filled laminated composite structure using hybrid (FEM and soft computing) technique:Trupti Ranjan Mahapatra/ Debu MishraPE		Designing of Nanostructured materials for		,
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filled laminated composite structure using hybrid (FEM and soft computing) technique: Trupti Ranjan Mahapatra/ Theoretical and experimental analysis Debu Mishra PE	37	of heavy metal ions	Priyaranjan Mohapatra	Chemistry
hybrid (FEM and soft computing) technique: Trupti Ranjan Mahapatra/ Theoretical and experimental analysis Debu Mishra PE				
38 Theoretical and experimental analysis Debu Mishra PE			T (D : M1 (/	
1 ,	38	1 2	1 0 1	DE
3 4 4 4 4 5 5 10 11 11 11 11 11 12 13 14 1 14 17 3 41 14 10 14 4 10 4 10 4 10 10 14 14 14 14 14 14 14 14 14 14 14 14 14	30	Corrosion analysis of MgCa alloy developed	Deuu misiia	1 12
for				
39 orthopedic implants Sambeet Kumar Sahu PE	39		Sambeet Kumar Sahu	PE
Design and Development on Circular Fixture		1		
for Printing Stir Welding PE	40		D 1 F11	DE
40 Friction Stir Welding Premananda Ekka PE	40	<u> </u>		PE
Laser Machining of CNT based composite Lipsamayee Mishra PE Lipsamayee Li	11		1 2	DE
	41		Devauuta Misila	1 12
Additive Manufacturing of AI Alloy using Circular and Liner				
42 Friction Stir Processing Anisha ekka PE	42		Anisha ekka	PE
Sustainability assessment and comparative				<u> </u>
invetigation		invetigation		
towards machinability improvement of AISI		• •		
D3 steel				
using new - generation ultrahard coated caribide tool				
under different cooling - lubrication Sudhansu Ranajn Das/			Sudhansu Ranain Das/	
43 conditions Smita Padhan PE	43	E	3	PE

	Knowledge based Smart System for Circular		
	Friction Stir		
44	Processing in Industry 4.0	Birendra Kumar Barik	PE
	Development of control methods for erosion due		
	to surface runoff and unstable catchment		
45	characteristcs	Abhayaa Nayak	Civil
	Study of Impact of Surface roughness and		
16	Pipe	Vintiguta Dhai	Civil
46	dimensions on Head loss Studey of effect of variable channel	Kirtisuta Bhoi	Civil
	conditions on gap		
	between alternate depths and location of		
	critical depth		
47	in the channel	Janhabi Meher	Civil
	Effect of curing types on the mechanical		
40	properties of light	Parsuram Nayak/	Civil
48	weight concrete with steel fibres	Ashim Kuamr Mishra	Civil
49	Modelling of overtaking manuever of driver with lateral clearance	Pratap Ku. Pradhan	Civil
-12	Behavior of Glass Fiber Reinforced Plastic	Trada Traditar	CIVII
	(GFRP)		
	strengthened Shear Deficient Reinforced		
	Geopolymer		
50	Self- Compacting Concrete (GSCC) beam using solid waste	S. K. Panigrahi	Civil
30		5. K. I anigram	CIVII
	Study on strength and Durability Properties of Stabilized Earth		
	Blocks Prepared using Industrial Waste And	Bharadwaj Nanda/	
51	Alkali Binder	Bharati Mohapatra	Civil
	Study of moisture damage effect on dense		
	bituminous		
52	macadam utilising polypropylene fibre by marshall methods	Sudhanshu Sekhar Das	Civil
32	Experiment and analytical modeling of	Sudifatistiu Sckilar Das	CIVII
	concrete		
	beams/beam - columns with shape memory		
53	alloy inserts	Ajaya Kumar Nayak	Civil
	Study on removal of organics and nutrients		
51	from wasterwater	D D Doch	Civil
54	using movin bed bio film reactor	R R Dash	CIVII
	Study of effect of variable channel conditions on energy		
55	dissipation through hydraulic jump	Laxmipriya Mohanty	Civil
	Soil Stabilisation Using Bioenzyme and	1 7	
56	Micro -organism	P. K. Pradhan	Civil
	Rain Garden - As A solution to urban		
57	drainage problem	Anil Kumar Kar	Civil
		Ramakanta Panigrahi/	
58	Characterization of Geopolymer Bricks	Sanghamitra Jena	Civil

	Confinement effect on the fibre reinforced fly ash mixed		
	ash mixed concrete subjected to elevated temperature		
	using naturla		
59	and recycled coarse aggregate	Ramkrishna Dandpat	Civil
	Effect of ternary cement with industrial solid	· · · · · · · · · · · · · · · · · · ·	
	wastes as		
	aggregate on rebar corrosion in RCC and		
	development of high		
60	temperature resistance concrete	Snajaya Kuamr Patro	Civil
	Free vibration study of stiffened composite		
	plates		a
61	with and without cutouts	Leena Sinha	Civil
	Fabrication and evaluation of Mechanical,		
	Thermal and Tribological		Mechanical /
	properties of hybrid AMMCs through	Prabir Kumar Jena /	Central
62	powder metaalurgy technique	Rabindra Behera	Workshop
	Characterization and study of thermo-		
	mechanical properties		
	of randomly oriented rattan fiber reinforced		
(2)	polyvinlyl	Jyoti Ranjan Mohanty/	N/ 1 ' 1
63	alcohol composite	Janaki Dehury	Mechanical
<i>-</i> 1	A Non - hydrostatic Mesoscale Mdel for	D 11 13 1 D 3	
64	Rising Thermal Bubble	Dr. Hrushikesh Barik	Mechanical
	To Develop a Z - Axis Rotating Tool with		
	Arduino Program for		
65	Electro - Chemical Discharge Machining Process	Jayadev Rana	Mechanical
0.5	A study on parametric appraisal of Electro -	Jayadev Kana	Wiechanicai
	Chemical Discharge Machining (ECDM)		
	Process:		
	fro design and constuction of Power Supply		
66	Unit.	Layatitdev Das	Mechanical
	Development of hybrid composite with palm	· ·	
	leaf stalk-Glss fiber composites for		
67	Automotive Application	Chitta Ranjan Deo	Mechnical
	An optimum design approach for spur gear		
68	using metacheuristics	Sumanta Panda	Mechanical
	An Investigation on the Mechanical		
	Properties of Laminated		
	Composite Plate with Different Fiber		
69	Orientation.	Mihir Kumar Sutar	Mechanical
	Development of Natural fibre reinforced		
	polylactic acid(PLA)		
	green composites for biomedical and		
70	packaging applications	Sarojini Pattnaik	Mechanical
	Evaluation of Tribologcal properties of		
	biofiber polymer		
71	composite for low cost Applications	Punyapriya Mishra	Mehcanical

	Brazing of Aluminum to advanced Ceramic		
72	cutting tool	C: V C:	Maalaasiaal
72	inserts and its wettabillity characterization	Saroj Kumar Sarangi	Mechanical
	Study and Analysis of Mechanical and metallurgical properties		
	of friction stir welded similar and dissimilar	Pragyan Paramita	
73	materials	Mohanty	Mehcanical
	Prepartion and characterication of data palm		
	fiber reinfored		
74	epoxy corpste	Janaki Dehury	Mechanical
	Machinability performance of Bio	,	
	Degradable Dielectric Fluids on		
	Sustainable Electrical Discharge Machining		
	(EDM)		
75	of Inconel Suppert Alloys.	Santosh Kuamr Sahu	Mechanical
	Development of Efficient Hardware		
76	Architecture for	Du Dilmono ditera Da	ETC
76	Vowel like speech Detection Method.	Dr. Bikramaditya Das	ETC
77	MIMO Dielectric Resonator antennas for 5G	Charie V I	ETC
77	applications	Sheeja K. L.	EIC
	Fractal Patch Antenna Design for High		
78	Frequency Mobile Satellite Communication	Biswa Binayak Mangraj	ETC
79	Design of multiband antenna for Aircraft	Ananda Kumar Behera	ETC
19	A Novel Compact slot Antenna for C - Band	Alianda Kumai Denera	LIC
80	Application	Diptimayee konhar	ETC
	Experimental Verification of Different		
81	Microstrip Antennas	Debasis Mishra	ETC
82	A Novel Antenna for S- Band Application	Suvendu Narayan Mishra	ETC
	Design and Implementation of Continues		
	wave(CW) Doppler		
	Radar for physiological signatres		
	(Respiration and Heart rate)		
83	in unobtrusive health monitoring system.	Ashish Kumar Sharma	ETC
	Generation of Real Time Heterogeneous		
84	Signal Datasets	Ms. Rasmita Sahu	ETC
	CAD system development for breast cancer		
6.5	detection		E/F/C
85	using convolutional neural network (CNN)	Sanjaya Agrawal	ETC
	Exploring digital circuits designing using		
0.0	perpendicular nano	Dandan IZ Di '	ETC
86	magnetic logic architectures	Bandan Kumar Bhoi	ETC
87	Hybrid path planning for AUVs	Madhusmita Panda	ETC
	Object detection and tracking of videos for		
00	surviellance	De Niemalai Dhai	ETC
88	appliction Power Ovelity analysis	Dr. Nirmalni Bhoi	ETC
89	Power Quality analysis	Santi Behera	EEE
	Destrice Circulat C.N. E. T.		
00	Real Time Simulation of a New Fuzzy Logic	Dibbuti Droped Schoo	EEE
90	Based Secondary	Bibhuti Prasad Sahoo	EEE

	Lod Frequency Controller Fro Multi - Microgrid		
	Design of intellignet fractional order contrller		
91	for BLDC motor	Rosy Pradhan	EE
92	Deep Learning for Medical Image Processing	Prasanta Kuamr Parida	EEE
	Energy management by improvement of PV		
	generaton		
0.2	dispatchability in isolated system and DC	a ' Di	FFF
93	microgrid	Sasmita Behera	EEE
0.4	Induction motor speed control using variable	A '. N. T. 11' 1	FF
94	frequency drive	Amit Mallick	EE
95	Design and Implementation of Solar Rickshaw	Nutan Saha	EE
	Design of DC - DC Converter for Hybrid	Jatin Kumar Pradhan /	
96	Energy Storage System	K. Sujita Kumar Achary	EE
, ,	Analysis of Power Quality of 3 KW Grid	11. 201.001	
	Connected/Standalone		
97	solar PV System	Manish Tripathy	EE
	Speed Control of BLDC Motor using CUK	,	
98	converter	Banaja Mohanty	EE
	Design and implemenation of BLDC/SRM		
	moto drive for		
99	electric vehicle	P. K. Hota	EE
	Transient Stability Analysis of Capacitive		
100	Voltage Substation	Deepak Kumar Lal	EE
101	Image Processign Using Deep Learning	Lingraj Dora	EEE
	IoT Based Real Time Energy Management of		
102	A Micro - Grid	Raseswari Pradhan	EE
	Analysis of Wind Speed Time Series for		
	Prospective Power		
103	Generation Applications in Odisha	Rajat Kanti Samal	EE
	Internet of Things Driven Speed Control of		
104	Electricla	C D1	EEE
104	Equipment(s): A Smart Home	Gyan Ranjan Biswal	EEE

22. CURRICULAR ACHIEVEMENT & CO-CURRICULAR ACHIEVEMENTS

The students of VSSUT excel in all fronts including academic, cultural, extracurricular activities. The students of the university have taken up social activities towards the development of surrounding community. The university has three societies namely Technical Society, Cultural Society & Athletic Society under which a number of clubs function for all round development of the students and to give scope to exhibit their talents. Each department has professional societies in their respective fields which provide platform for the students to exhibit their academic and research talents.

The following are the achievements of students:

Achievement of IDEA & INNOVATION CLUB:

- 30/04/2019-31/04/2019-3 teams for reaching through the grand finale round of Hackathon on Road Safety organized by Indian road safety campaigninassociationwithMinistryofRoadTransportandHighways, Government of India, United Nations and Bosch India at IIT Guwahati.
- 25/04/2019-26/04/2019-Afirstofitskind2DayTechnicalWorkshopon
 LaunchvehicleTechnologywasorganizedtoimpartknowledgeonGround Station&Telemetry,
 Guidance&Control, Materials&propulsion, Pyro&separationsystems,
 Rangesafety&precautions. It hosted following 11 eminent speakers from different centers
 of ISRO Indian Space Research Organization
- Apurwa Masook successfully completed the Massachusetts Institute of Technology (MIT) MITBootcamps for Innovation and entrepreneurs hip at Australia.
- Our Team Completed Internship and Industrial Training at different IndustriesandInstitutionsofIndia. A8member2ndYearstudentteamwereat Reliance Power, Nagpur with Ashesh Padhy Sir (Sr. VP &StationDirector, VIPL). A2 member team was at UNICEF SRISTI Summer School of inclusive Innovation, Ahemdabad with Prof. Anil Gupta. A Group Containing 4 members were at NabhaL &TPower, Punjab with Athar Shahab sir (CEO, NPL(L&T)). And also other members of Team completed the ir training at HAL, Sunabedha, IFFCO(Paradeep).
- Our Team Spine Care won the 2nd Runnersup Prize with a Cash Prize of INR 1 Lakh at Anveshan @019 Innovation Fellowship organized byAnalog Devices, Inc.Received the award from Mr. SaiKrishna Mopuri, MD–analog Devices(India).
- One of our team member, Markandeya Mohapatra completed his 2 months' internship in Bhabha Atomic ResearchCenter.

Achievements of Robotic Club:

- AIR- 4 among the shortlisted teams from across India, at the National Finals of the MathWorks Parrot Minidrone Competition held at NUMA Bengaluru.
- Appreciation by Honourable Collector, Sambalpur District on our project UAV for Disaster Management.
- Finalist Smart India Hackathon-2019 software Edition.
- Shortlisted in Round-2, ABU Robocon 2019.
- 2 teams shortlisted under Top 10 in E-Yantra Robotics competition- 2018, MHRD & IIT Bombay.
- 3 Teams in National Finals at L&T Techgium -2019.
- 3 Teams from VSSUT selected finalist for Tata Crucible Hackathon 2019.
- Asia Pacific Rank 4th in E-fest Asia Pacific 2019 Under Innovation Additive 3D printing challenge.
- Asia Pacific Rank 5th in E-fest Asia Pacific 2019 Under Student Designing Competition.
- 2nd Prize at Smart Odisha Hackathon 2018.
- 2nd Runner's up at Kolkata Zonal of Techfest -2018, IIT Bombay.
- AIR-1 at National Student's Space Challenge 2018, ISRO & IIT Kharagpur.
- 1st Prize Line Follower Event, Innovision-2018 NIT Rourkela.
- 1st Prize Hover pod Event, Innovision-2018 NIT Rourkela.
- 1st Prize Balance Bot Event, Innovision-2018 NIT Rourkela.
- 1st & 2nd Prize in Maze solving & Image Processing Event, Innovision-2018 NIT Rourkela.

23. Social responsibility

SANSKAR KENDRA

- The students of the university have taken up social responsibilities by providing education to school going children of nearby locality. Sanskar Kendra is a fully mechanized sovereign group of the Veer Surendra Sai University of Technology, Burla which has been working since 2004 for the enrichment of knowledge of local children. A team of 150 volunteers from our university runs the organisation along with support from alumni and teachers of our university.
- The students of the University are not only providing education to the poor and needy children but also giving them proper career guidance.
- At present around 250 students and their families are associated the Sanskar Kendra.
- > Sanskar Kendra have organised health camp, cleanliness programs and awareness camps for the children of the nearby villages.
- The students studying in Sanskar Kendra are doing very well in their studies and in their career.

24. AWARDS / PRIZES WON BY STUDENTS, FACULTY

Prof. Debadutta Mishra:

"Er. Brundaban Sahu Memorial Award" at 60thAnnual Technical Session of Odisha State Centre, The Institution of Engineers (India) on 30th March, 2019.

Dr. Arun Kumar Rout

Best paper award in the ICAIMRE -2019/ Erosion wear performance of palm-epoxy hybrid composite reinforced with biowaste filler.

Dr. Pankaj Charan Jena

Er. Pratap Chandra Panda award received from The Institution of Engineers (India),2019.

Dr. SudhansuRanjan Das

- 1. Er. Pratap Chandra Panda award received from The Institution of Engineers (India), 2019.
- 2. Distinguished Researcher award received from International Institute of Organized Research (I2OR), 2019.
- 3. Outstanding Educator award received from Green ThinkerZ, 2019.

Dr. TruptiRanjanMahapatra:

1. "Er. Brundaban Sahu Memorial Award" at 60th Annual Technical Session of Odisha State Centre, The Institution of Engineers (India) on 30th March, 2019.

"Er. Raj Kishore Mahapatra Award" at 59th Annual Technical Session of Odisha State Centre, The Institution of Engineers (India) on 21st January, 2018

Dr. Sanjaya Ku. Panda, Dr. Manas Ranjan Senapati, Dr. Pradip Kumar Sahu have been awarded with Institution Award during 60th Annual Technical Session held on 30th March, 2019 for best paper in the Institution of Engineers (India), Odisha State Centre, Bhubaneswar.

Dr. Sarojrani Pattnaik, Assoc. Prof., Mechanical Engg.

	Name of the Award/ Medals	Name of the Research work for which the Award/Medal is WON	Date/ Month/ Year of award	Name of Awarding Organizatio n
1	1st Global Outreach Research and Education Summit and Award 2019	Young Researcher in Mechanical Engineering Award.	31.01.2019	Global Outreach Research & Education Association
2	2 nd Global Outreach Research and Education Summit and Award 2019	For excellence in "Teacher in Mechanical Engineering".	30.04.2019	Global Outreach Research & Education Association
3	GRABS Awards 2019	Best Faculty Award	03.02.2019	GRABS Educational Charitable Trust
4	Institute of Scholars "Research Excellence Award 2019"	For the Journal publication entitled "Development in Investment Casting Process: A Review".	2019	Institute of Scholars (InSc), unit of SDPL
5	Institute of Scholars "Best Teacher Award 2018"	In recognition of valuable contribution to the academic community and the students.	2018	Institute of Scholars (InSc), unit of SDPL
6	Outstanding Faculty in Engg.	For the contribution and achievement in the field of mechanical engg.	07.07.2018	Venus International Foundation

7	Outstanding	For the contribution and achievement in	11.08.2018	Venus
	Scientist	the field of mechanical engg.		International
				Foundation
8	Outstanding	For the contribution and achievement in	02.03.2019	Venus
	Woman in	the field of mechanical engg.		International
	Engg.			Foundation

Dr. Mihir Kumar Sutar, Asst. Prof., Mechanical Engg.

1	2 nd Global Outreach Research and Education Summit and Award 2019	For excellence in "Teacher in Mechanical Engineering"	30.04.2019	Global Outreach Research & Education Association
2	GRABS Awards 2019	Best Researcher Award	03.02.2019	GRABS Educational Charitable Trust
3	1st Global Outreach Research and Education Summit and Award 2019	Young Researcher in Mechanical Engineering Award	31.01.2019	Global Outreach Research & Education Association
4	Institute of Scholars Research Excellence Award 2018	For the Journal publication entitled "A Geometric Approach for Inverse Kinematics of a 4-link Redundant Manipulator"	2018	Institute of Scholars (InSc), unit of SDPL
5	Best Young Faculty	Best Practise in the field of education	27.05.2018	DK International Research Foundation
6	Outstanding Faculty in Engg.	Best Practise in the field of education	07.07.2018	Venus International Foundation
7	I2OR Awards 2018 for Educators	Best Practise in the field of education	17.06.2018	International Institute of Organized Research (I2OR)
8	Young Researcher in Mechanical Engineering	Global Outreach Education Award for excellence in "Research in Mechanical Engg"	25.06.2018	REDINNO Multinational Technology Company

INANCIAL INFORMATION: FUNDS RECEIVED & SPENT

Income	Income			
Sl. No.	Items	Amount in thousands	Amount converted in absolute Rs.	
01	Grants Receved from			
(i)	University Grants Commission	0	0	
(ii)	Distance Educatio Council	0	0	
(iii)	Other Central Governmetn Departments	52,916,664	52,916,664	
2	Grants Recived from State Government	702,558	702,558,000	
3	Grants Recived from Local Bodies	0	0	
4	Donations	0	0	
5	Tuition Fee	76,008	76,008,000	
6	Other Fees	170,850.26	170,850,260	
7	Interests	15,565.736	15,565,736	
8	Sale of Application Form	0	0	
9	Other Income	1,287.016	1,287,016	
Total	1	1,019,185.676	1,019,185,676	

Expenditure			
Sl. No.	Items	Amount in thousands	Amount converted in
			abslute Rs.
01	Salary, Allowances & Retirement Benefits	556,779.601	556,799,601
02	Bulidings (Construction & Maintenance)	82,042.048	82,042,048
03	Library & Laboratory	14,504.48	14,504,480
04	Research Activities	2,000	2,00,000
05	Scholarships	0	0
06	Grants to Colleges	0	0
07	Itger Exoenses	39,086.867	39,086,867
Total	•	694,432.996	694,432,996

25. INTERNAL REVENUE GENERATED

Furnish figure for financial year :FY 2018-2019		
Revenue earned from	Amount (₹)	
Fees (From students)	7,14,50,000	
Externally funded R & D projects	24,14,20,000	
Consultancy	5,357,090	
Infrastucture and Human Resources	0	
Financial (Interest earned form bank accounts etc.)	1,55,74,553	
TOTAL	33,38,01,643. 00	