



# INFORMATION BROCHURE

## 2019-20



**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA**  
Siddhi Vihar, Burla, Sambalpur 768018

(A State Govt. University covered under section 2(f) & 12(B) of UGC Act)

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



The authorities reserve the right to make amendments to rules, schedules and regulations from time to time. The academic regulations are subjected to modifications as would be decided by Academic Council of Veer Surendra Sai University of Technology, Burla. No liability can be accepted by the University in connection with any such alternations or amendments.



Printed and published under the authority of

**Prof. Atal Chaudhuri**

Vice-Chancellor

Veer Surendra Sai University of Technology, Burla

Dist. Sambalpur – 768018, Odisha

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*With best compliments from :*  
Chairman & Members of  
University Prospectus Committee



## **Vision**

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.

## **Mission**

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.



### **University Administration**

Chancellor	: His Excellency Prof. Ganeshi Lal, Governor of Odisha
Vice Chancellor	: Prof. Atal Chaudhuri
Registrar	: Smt. Upama Kalo, OAS (S)
Comptroller of Finance	: Shri. Nilam Prakash Kujur, OFS
Controller of Examinations	: Dr. Pradip Kumar Sahu

### **Members of Board of Management**

1. Prof. Atal Chaudhuri, Vice Chancellor, VSSUT, Burla (Ex-officio)
2. Sri Sanjay Kumar Singh, IAS, Commissioner cum Secretary, SD & TE Dept., Govt. of Odisha, Bhubaneswar (Ex-officio)
3. Principal Secretary to Government, Finance Department, Government of Odisha. (Ex-officio)
4. Director of Technical Education & Training, Odisha (Ex-officio)
5. Hon'ble Vice-Chancellor, Biju Pattnaik University of Technology, Odisha, Rourkela
6. Prof. Kusum Sudhakar Reddy, Professor, Civil Engineering, IIT, Kharagpur.
7. Prof. H.C.S. Rathore, Vice-Chancellor, Central University of South Bihar, Patna, Bihar, UGC Nominee
8. Er. Bimal Krushna Mishra, Ex-CEO, RSB Metal Tech.(P) Ltd., N2/40, IRC Village, Bhubaneswar (Alumni)
9. Er. Sashi Sekhar Mohanty, CMD, Neelachal Ispat Nigam, Jajpur, Odisha. (Alumni)
10. Prof. Rutuparna Panda, Professor in Electronics & Telecommunication Engineering, VSSUT, Burla
11. Prof. Amar Nath Nayak, Professor in Civil Engineering VSSUT, Burla
12. Prof. Rakesh Mohanty, Associate Professor, VSS University of Technology
13. Shri Kishore Kumar Mohanty, M.L.A., Jharsuguda
14. Shri Debesh Acharya, M.L.A., Bargarh
15. Registrar, VSSUT, Burla, Convener-cum-Secretary



## DEANS

Faculty & Planning	:	Prof. Bibhuti Bhusan Pati
Students' Welfare	:	Prof. Sudhanshu Sekhar Das
Academic Affairs	:	Prof. Sarat Kumar Swain
CDCE	:	Prof. Uma Ranjan Jena
SRIC	:	Prof. Pawan Kumar Modi
PGS & R	:	Prof. Prakash Chandra Swain

## HODs

Architecture	:	Dr. Bharati Mohapatra
Chemical Engineering	:	Dr. Achyut Kumar Panda
Chemistry	:	Prof. Sukalyan Dash
Civil Engineering :	:	Dr. Ajaya Kumar Nayak
Coordinator, Computer Application	:	Dr. (Mrs.)Sucheta Panda
Computer Science & Engg.	:	Dr. Manas Ranjan Kabat
Electrical Engineering	:	Dr. (Mrs) Banaja Mohanty
Electrical & Electronics Engg.	:	Dr. Gyanaranjan Biswal
Electronics & TC Engineering	:	Dr. Kabiraj Sethi
Humanities	:	Dr. Jayprakash Paramguru
Information Technology	:	Dr. Manas Ranjan Senapati
Mathematics	:	Dr. Sushanta Kumar Paikray
Mechanical Engineering	:	Prof. Jyoti Ranjan Mohanty
Metallurgy & Materials Engineering	:	Dr. Bibhuti Bhusan Pani
Physics	:	Prof. Umaranjan Jena
Production Engineering	:	Dr. Kamal Pal



### **PICs**

Central Library	:	Dr. Harish Kumar Sahoo
Central Internet	:	Dr. Manas Ranjan Kabat
Central Computer	:	Dr. Suvasini Panigrahi
Central Workshop	:	Dr. Rabindra Behera
Guest House	:	Dr. Sushanta Kumar Paikray
Central Transport	:	Dr. Rabindra Behera
Central Store & Purchase	:	Dr. Sanjay Agrawal
Civil Works	:	Prof. Sanjay Kumar Patro
Electrical Maintenance	:	Dr. Gyan Ranjan Biswal
Examination	:	Dr. Ganeswar Nath
Training & Placement	:	Prof. Prasanta Nanda
Telephone	:	Dr. Harish Kumar Sahoo
Alumni Relations	:	Dr. Sanjay Agrawal
University Seminar	:	Prof. Jyoti Ranjan Mohanty
Time Table	:	Mrs. Sudhira Rath
Horticulture	:	Prof. Jaydev Rana
University Canteen	:	Dr. Himansu Sekhar Behera

### **OTHER OFFICIALS**

Director, IQAC	:	Prof. Bibhuti Bhusan Pati
Co-ordinator, TEQIP-III	:	Prof. Amar Nath Nayak
First Appellate Authority, RTI	:	Prof. Rutuparna Panda
Public Information Officer	:	Dr. Manas Ranjan Kabat
Maintenance Engineer (I/c)	:	Er. Akash Kumar Naik
E-Abhiyoga	:	Dr. Satyabrata Das
NCC	:	Lt. Er. Birendra Kumar Barik
NSS	:	Dr. Anil Kumar Kar
Internal Complain Cell	:	Dr. Punyapriya Mishra
Co-ordinator, Faculty & Planning	:	Dr. D. Chandrasekhar Rao
Co-ordinator, Students' Welfare	:	Dr. Smurti Ranjan Mohapatra



Co-ordinator, SRIC	:	Dr. Mihir Kumar Sutar
Co-ordinator, PGS & R	:	Dr. Mohapatra Prakash K. Sahoo
Nodal Officer, Finance, TEQIP-III	:	Dr. Priyaranjan Mohapatra
Nodal Officer, Procurement, TEQIP-III	:	Dr. Satabrata Das
Nodal Officer, Academics, TEQIP-III	:	Prof. Prakash Kumar Hota
Nodal Officer, MIS, TEQIP-III	:	Dr. D. Chandrasekhar Rao
Librarian	:	Dr. Archita Nanda
Office Superintendent	:	Sri Balistha Sohela
PA to Vice-Chancellor(I/C)	:	Sri Jagabandhu Sathi

**Section Officers**

Accounts – I	:	Sri Himadri Sekhar Panda
Accounts – II (S.O. I/c)	:	Sri Gouranga Ch. Sahu
Examination	:	Sri Lajrus Kujur
Establishment	:	Sri Jagabandhu Sathi

**HALL OF RESIDENCE ADMINISTRATION**

<b>Dean, Students Welfare</b>	<b>Prof. Sudhanshu Sekhar Das</b>	<b>9439207001</b>
<b><u>Marichi Hall of Residence</u></b>		
Warden	Dr. Bidyadhar Rout	9439207016
Asst. Warden	Dr. Deepak Kumar Lal	9439207017
<b><u>Atri Hall of Residence</u></b>		
Warden	Dr. Prakash Chandra Mishra	9439207010
Asst. Warden	Dr. Mohapatra Prakash K. Sahoo	9439207011
<b><u>Kratu Hall of Residence</u></b>		
Warden	Dr. Sushanta Kumar Badjena	9439207012
Asst. Warden	Er. Suresh Kumar Srichandan	9439207013
<b><u>Arundhati Hall of Residence</u></b>		
Warden	Dr. Soumya Saswati Sarangi	9439207018
Asst. Warden	Er. Ananda Kumar Behera	9439207019
<b><u>Anuradha Hall of Residence</u></b>		
Warden	Dr. Renu Prava Dalai	9439207021
Asst. Warden	Dr. Jatin Kumar Pradhan	9439207022
<b><u>Vasistha Hall of Residence</u></b>		
Warden	Dr. Arunanshu Mohapatra	9439207014
Asst. Warden	Dr. Kiran Kumar Ekka	9439207015



**Visakha Hall of Residence**

Warden Dr. Raseswari Pradhan 9439207002  
Asst. Warden Er. Amit Kumar Behera 9439207003

**Vasundhra Hall of Residence**

Warden Dr. Sasmita Behera 9439207004  
Asst. Warden Dr. Ashok Kumar Sahoo 9439207005

**Pulastya Hall of Residence**

Warden Dr. Debabrata Giri 9439207006  
Asst. Warden Er. Pratap Kumar Pradhan 9439207008

**Rohini Hall of Residence**

Warden Dr. Nibedita Patel 9439214338  
Asst. Warden Er. Amit Mallick 9439214438

**Pulaha Hall of Residence**

Warden Dr. Anil Kumar Kar 9439214336  
Asst. Warden Er. Santosh Kumar Sahu 9439214337  
Asst. Warden Dr. Bigyan Ranjan Jali  
Asst. Warden Er. Susant Kumar Sial  
Asst. Warden Ar. Amit Chatterjee

**ACADEMIC PROGRAMME**

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

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



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

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

\* Self-sustaining programme

\*\*GIN – Govt. of India Nominee

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

# Course accredited by National Board of Accreditation (NBA)

TFW – Tuition Fee Waiver

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

SI.No	Department	Name of the Specialisation	Year of Starting	Sanctioned Intake
1.	Civil Engineering	B.Tech. in Civil Engg & M.Tech. in Structural Engg.	2015	18
2.	Electrical Engg.	B.Tech. in Electrical Engg. & M.Tech. in Power System Engg.	2015	18
<b>TOTAL</b>				<b>36</b>

**iv) 2 YEARS M.TECH. PROGRAMMES (FULL TIME)**

SI.No	Department	Name of the Specialisation	Year of Starting	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 & Telecomm. Engg.	#Communication Systems*	1995	18
		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 Processing	2010	18
# – NBA Accredited * AICTE approved TOTAL				360

**vi) 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/ Organic Chemistry	2010	36
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	Year of Starting	Sanctioned 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 started Ph.D admission in 2018-19

### INCUMBENCY OF VICE-CHANCELLORS

Sl. No.	Name	Qualification	Period	
			From	To
1.	Prof. Deba Kumar Tripathy	Ph.D. (Engg)	17.09.2009	21.09.2011
2.	Prof. Chitta Ranjan Tripathy	Ph.D. (Engg)	21.09.2011	30.11.2011
3.	Prof. Bijoy Kumar Nanda	Ph.D. (Engg)	01.12.2011	30.11.2014
4.	Prof. E.Saibaba Reddy	Ph.D. (Engg)	01.12.2014	29.11.2017
5.	Prof. Bibhuti Bhusan Pati	Ph.D. (Engg.)	30.11.2017	15.02.2018
6.	Prof. Atal Chaudhuri	Ph.D. (Engg.)	16.02.2018	Continuing



## UNIVERSITY TIMING

Office Hours (Monday to Friday)	:	9.00 A.M. to 1.00 P.M. & 2.30 P.M. to 5.00 P.M.
Saturday	:	8.00 A.M. to 1.00 P.M.
Academic Hours (Monday to Friday)	:	9.00 A.M. to 2.00 P.M. & 2.30 P.M. to 5.00 P.M.
Saturday	:	9.00 A.M. to 2.00 P.M.
Summer Timing (April / May / June)	:	
(Monday to Friday)	:	7.00 A.M. to 1.00 P.M.
Saturday	:	7.00 A.M. to 12.00 Noon

### **IMPORTANT INSTRUCTION**

*As regards Academic Calendar, Syllabus, Attendance, Examinations, results etc., all the students will be guided by the rules and regulations framed by the Academic Council and Examination Committee of the University. Ignorance of the rules and regulations are not to be excused.*



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## ABOUT VSSUT



Veer Surendra Sai University of Technology (VSSUT), Odisha was formed by Odisha Act 9 of 2009 by converting University College of Engineering (UCE), Burla to a non-affiliating Unitary University and came into force by issue of notification by Government of Odisha from 1<sup>st</sup> day of July 2009 (vide Industries Deptt. Memo No. IV-TTI-33/2009-8553 and 8564 dtd 10.6.2009). This State Government University is recognized by University Grants Commission (UGC), New Delhi under Section 2(f) & 12(B) of UGC Act.

This University is named after Veer Surendra Sai, the great Indian freedom fighter who was born on 23<sup>rd</sup> January 1809 and sacrificed his life fighting against the British rule and died in Asiragarh jail on 28<sup>th</sup> February 1884. Veer Surendra Sai is a Perfect role model for our professional and young scholars dedicated for the cause of motherland. The University continues to feel proud for this real life hero.

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 12<sup>th</sup> August 1956 at Burla in the name of University College of Engineering (UCE), the first engineering college of the state was functioned as a constituent 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.

Burla is located at 21° 30'N 83° 52'E 21.5°N83°E. It has an average elevation of 173 metres (567 feet). The town lies at one end of Hirakud Dam which is located around 2km North-West of the town. The Jawahar Minar offers picturesque views of the dam, the lake and the surrounding of forest of Barapahad (12 hills). At the other side of the dam is the township of Hirakud. Burla is piquant and truly University town as it hosts the Sambalpur University, the VSS Institute of Medical Sciences and Research (VIMSAR) and the Veer Surendra Sai University of Technology, Burla. It is the most ideal place for learning and to achieve one's privileged dreams. Burla is well connected to



Bhubaneswar, Raipur and Kolkata with roads and railways. Veer Surendra Sai Airport at Jharsuguda is 60km distance from VSSUT. Burla is only 10 km away from Sambalpur by road and railways. In 1956, UCE started with 20 students enrolling into 3 branches, namely Civil Engineering, Electrical Engineering and Mechanical Engineering. It was brought under administrative control of Sambalpur University in January 1967 and later under Biju Patnaik University of Technology (BPUT) by BPUT Act 2002 in July, 2002.

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 Architecture (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.

### **CAUTION**

The followings places are dangerous spots. Many students have lost their lives in the past. Students are warned not to go near the following places under any circumstances. The violators shall be punished as per law.

- Power Channel
- Hirakud Dam
- Mahanadi River bed
- Syphon Spilway
- Roof top of the University Buildings/ Halls



## 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 :

	<b>Name</b>	<b>Qualification</b>	<b>Specialization</b>
1.	Dr. Debabrata Giri <b>(H.O.D)</b>	B.Tech (CET, BBSR), M.Tech (NIT, RKL), Ph.D (IIT, KGP)	Geotechnical Engineering
1.	Dr. Bharati Mohapatra	B. Arch (CET), M.Arch (Jadavpur University), Ph.D (SAP, Anna University)	Urban Design and Planning
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 Mysore),<br>M. Arch (D. Y. Patil College of<br>Engg. And Tech.) | Architecture Conservation,<br>Sustainable Architecture,<br>Green Building<br>Infrastructure, and Theory<br>of Design. |
| 4. | Mr. Shaswat Sekhar<br>Sarangi | B. Arch ( NIT Raipur)  | History of Architecture,<br>Vernacular Architecture,<br>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.

<b>Sl. No</b>	<b>Name of the Laboratory</b>	<b>Equipments</b>
1	Architectural Design Studio	<b>Drafting Tools</b> <b>Miscellaneous</b> Movable Display Panels Fixed Display Panels Overhead Projector and projector screen Laser Light pointers
2.	Model Making Studio	<b>Cutting/Model Making</b> <b>Drafting Tools</b> <b>Miscellaneous</b> Display Corner Storage and Workshop Area
3.	Seminar cum Display Room	Computer system Furnished Lab furniture Storage cabinets Overhead Projector and projector screen Laser Light pointers Movable Display Panels Fixed Display Panels
4.	CAD Lab	Adequate no. of Computers 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 8<sup>th</sup> 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.
<b><u>ASSISTANT PROFESSORS</u></b>		
2. Ms. Nivedita Patel	BE (Berhampur Univ.), M. Tech, (BIT, Mesra)	Fuels and Combustion, Thermochemical conversion of WEO to liquid fuel



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

### 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/Filmwise 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.	Dr. Lipika Parida	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 immediate 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
<b><u>PROFESSORS</u></b>		
1. Prof. Sarat Kumar Swain	M.Sc., M.Phil., Ph.D. (Utkal University) Post-Doc (USA)	<b>Organic Chemistry, Polymer Chemistry, Nanotechnology, Materials Science</b>
2. Prof. Pravin Kumar Kar	M.Phil Ph.D (Delhi University)	<b>Industrial Chemistry</b>
3. Prof. Rahas Bihari Panda	M.Sc., MPhil., Ph.D (SU)	<b>Environmental Chemistry/Organic Chemistry</b>
4. Prof. Sukalyan Dash (HOD)	M.Sc., M.Phil., Ph.D. (Sambalpur University)	<b>Organic Chemistry, Surface Chemistry, Reaction Kinetics, Organized Assemblies</b>
<b><u>ASSOCIATE PROFESSORS</u></b>		
5. Dr. Priyaranjan Mohapatra	M.Sc (Ravenshaw ) M.Phil. (Ravenshaw ) Ph.D (Utkal University) Post-doc, (Chonnam National University , South Korea)	<b>Inorganic and Industrial Chemistry</b>
6. Dr. Trinath Biswal	M.Phil, Ph.D (Utkal)	<b>Organic and Industrial Chemistry</b>



7. Dr. Achyut Kumar Panda M.Sc., M.Phil,  
Ph.D (NIT Rourkela) **Organic Chemistry**
- ASSISTANT 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**
10. Dr. Aruna Kumar Barick M.Sc. (Utkal University)  
M.Tech. (CIPET),  
Ph.D. (IIT, Kharagpur) **Polymer Science, Engineering  
& Technology**
11. Dr. Bigyan Ranjan Jali M.Sc. (Utkal University)  
Ph. D. (IIT Guwahati) **Supramolecular Chemistry  
(Inorganic Chemistry)**

**3. Courses Offered:**

Following courses are offered in the department:

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 calorimeter	
2.	Instrumentation Lab.	Colorimeter, Refractometer, FTIR, Microwave synthesis, Electron microscope, flarimeter, Atronic Absorbance specific copy, DSC, DLS	Spectro-fluorimeter UV-Vis Spectro-photometer Electrochemical Workstation
3.	Environmental Lab.	Turbidity meter, sound pressure measuring instruments, BOD incubator, COD reflexes fluorimetric ionselective electrode.	



Research Lab

**5. Research Activities:**

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

Sl. No.	Name of the Faculty	Research Area	Awards/Distinctions etc.
1.	Dr. S. K. Swain	Materials Science; Polymer Science; Nanotechnology; Polymer composites and nanocomposites; Synthesis and Application of Nanomaterials; Bio-composites	<ul style="list-style-type: none"> <li>Samanta Chandra Sekhar Award 2015, by Odisha Bigyan Academy department of Science and Technology, Govt. of Odisha for outstanding research.</li> <li>INSA Research Fellowship – 2013 to do research work at IACS, Kolkata, Govt. of India</li> <li>DAE Young Scientist Research Award – 2008-09, Department of Atomic Energy, Board of Research in Nuclear Sciences (BRNS), Govt. of India</li> <li>JNCASR Visiting Fellowship – 2007-2008, Jawaharlal Nehru Centre for Advance Scientific Research (JNCASR), Bangalore, Govt. of India</li> <li>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</li> <li>Prof. R. K. Nanda Memorial Award – 1994 for Best Oral Presentation at Ravenshaw College, Cuttack</li> </ul>
2.	Dr. P. K. Kar	Supramolecular chemistry 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	<ul style="list-style-type: none"> <li>National Environment Award - 1994 (Subakaran Sarawagi Environment Award) for the outstanding contribution to the Nation in the conservation of environment in mining sectors.</li> </ul>



		waste assessment and management, Industrial pollution assessment and management	
4.	Dr. S. Dash	Physical Organic Chemistry; Bio-fuel; Adsorption study of Novel Materials	<ul style="list-style-type: none"> <li>• Prof. R. C. Tripathy Young Scientist Award – 2007</li> <li>• Prof. D. N. Pattnayak Award for Best Paper by Odisha Chemical Society- 2008</li> </ul>
5.	Dr. T. Biswal	Polymer Composites and Nanocomposites	
6.	Dr. P. Mohapatra	Synthesis and Application of Nanomaterials (Graphene, Quantum Dots, Nanoparticles, etc.)	<ul style="list-style-type: none"> <li>• Brain Korea 21st Century (BK 21) Post-doctoral Fellowship, South Korea</li> </ul>
7.	Dr. A. K. Panda	Conversion of Plastic Waste to Liquid Fuel	
8.	Dr. Ramakrishna D. S.	Organic Synthesis	
9.	Dr. M. Mohapatra	Physical Photochemistry; Biophysical Chemistry; Fluorescence Spectroscopy	<ul style="list-style-type: none"> <li>• Prof. R. K. Nanda Memorial Award (Best Oral Presentation) in 22nd Annual Conference of Orissa Chemical Society</li> <li>• Best Ph.D. Thesis Award (Langmuir Award) in Physical and Theoretical Chemistry at IIT Madras</li> <li>• Post-doctoral Research Fellowship, IIT Madras</li> </ul>
10.	Dr. A. K. Barick	Preparation & Characterization, of Polymer Blend, Composite, and Nanocomposites;	<ul style="list-style-type: none"> <li>• Hanyang Brain Post-doctoral Fellowship– 2012-13, Hanyang University, South Korea</li> </ul>
11.	Dr. B.R. Jali	Supramolecular Chemistry Inorganic 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- biosurfactants 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 photoluminescent 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 Elecvier 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), 01 (S. Korea), 02 (Indian).



## DEPARTMENT OF CIVIL ENGINEERING

### 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>	<u>Qualification</u>	<u>Specialization</u>
<b><u>PROFESSORS</u></b>			
1.	<b>Prof. Amar Nath Nayak</b>	B. Sc. (Engg.), (Utkal Univ.), M. Tech (IIT, Kharagpur), Ph. D (IIT, Kharagpur)	<b>Structural Engineering</b>
2.	<b>Prof. Prakash Chandra Swain</b>	B.Sc. (Engg.) (CET, BBSR), M.E. (UCE, BURLA), Ph. D (NIT, Warangal)	<b>Water Resources Engineering, Application of Artificial Intelligence Techniques to Water Resources Management</b>
3.	<b>Prof. Pradip Kumar Pradhan</b>	B.Sc (Engg.) (SU), M.Tech(SU), PhD (IIT Kharagpur)	<b>Geotechnical engineering</b>



4.	<b>Prof. Pradip Kumar Das (On Lien)</b>	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	<b>Hydraulics &amp; Water Resources Engg</b>
5.	<b>Prof. Sudhanshu Sekhar Das</b>	B.Sc Engg., (OUAT), M.T.R.P. (Indian Institute of Engineering Science and Technology Shibpur, Ph.D (IIT Kharagpur)	<b>Transportation Engineering</b>
6.	<b>Prof. Sanjaya Kumar Patro</b>	PhD (IIT Bombay)	<b>Structural Engineering</b>

**ASSOCIATE PROFESSORS**

7.	<b>Dr. Chitta Ranjan Mohanty (On Lien)</b>	B.Sc (Engg.) (UCE Burla), M Tech (IIT Kharagpur), Ph.D (IIT Kharagpur)	<b>Environmental Engineering</b>
8.	<b>Dr. Ajaya Kumar Nayak (H.O.D.)</b>	BTech (NIT,RKL), ME(IISc, Bangalore), Ph.D. (University of Southampton, UK)	<b>Structural Engineering</b>
9.	<b>Dr. Rakesh Roshan Dash</b>	B.E. (Utkal Univ.) M. Tech. (IIT Delhi) Ph.D. (IIT Roorkee)	<b>Environmental Science and Engineering</b>
10.	<b>Dr. Ramakanta Panigrahi</b>	B.Sc. (Engg.) (UCE Burla), M. Tech (IIT Delhi), PhD (IIT Delhi)	<b>Structural Engineering</b>
11.	<b>Dr. Debabrata Giri</b>	B.Tech (CET, BBSR), M.Tech (NIT, RKL), Ph.D (IIT, KGP)	<b>Geotechnical Engineering</b>
12.	<b>Dr. Saubhagya Kumar Panigrahi</b>	B. Tech. (Utkal University), M. Tech. (NIT Rourkela), Ph.D. (IIT Kharagpur )	<b>Structural Engineering</b>
13.	<b>Dr. Anil Kumar Kar</b>	B.Sc. (Engg) (S.U), M.Tech (IIT Roorkee), Ph.D (IIT Roorkee)	<b>Water Resources Engineering</b>

**ASSISTANT PROFESSORS**

14.	<b>Ms. Sudhira Rath</b>	B.Sc. (Engg) (N.I.T, Rourkela), M.E (S.U)	<b>Transportation Engineering</b>
15.	<b>Ms. Jayanti Munda</b>	B.Tech (UCE, Burla ), M.Tech (NIT Warangal)	<b>Geotechnical Engineering</b>
16.	<b>Ms. Leena Sinha</b>	B.Tech ( UCE Burla ), M.Tech( NIT Rourkela)	<b>Structural Engineering</b>



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



34. **Mr. Sajal** (TEQIP Sponsored) B.Tech. (NIT, Surathkal) M.Tech (IIT, Roorkee) **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. No	Name of the Laboratory	Major Equipments	Research Facilities
1	Structural Engineering	Digital Universal Testing Machine(100Toncapacity),LoadingFrame for testing of structuralmembers, Equipment to measureMaxwell ReciprocalTheorem,Two hinged Arch, Three hingedArch, Redundant Truss, Optical microscope for crack measurement.	Dynamicresponseofstiffenedisotropic/compos iteshells, Retrofitting ofconcrete structures with FRP compositesUtilization of SolidWaste in ConcretePreparation,Behaviourof Concrete withPartial Replacement of Wastes
2	Concrete	Compression Testing Machine (2000 kN capacity), Flexural Testing Machine, Concrete Mixer, Table Vibrator, Humidity chamber, permeability Test apparatus of concrete, Digital schmitic Rebound Hammer, Ultra sonic pulse velocity equipment muttle furnace, core cutter.	Concrete Behavioural Mechanics, Study onSelf Compacting Concrete, EarthquakeAnalysis of Dam, Optimization, ComputerApplication in Civil Engineering, RecycledAggregate Concrete, Fly-Ash Geo-Polymer Concrete



3	Geotechnical Engineering	Digital Triaxial Testing Machine, Large Size Direct Shear Test Apparatus, Swelling testing machine, CBR Testing Machine, Consolidometer (Single Unit) Three gang consolidometer Automatic compactor	Geotechnical characterization of industrial wastes, Soil Stabilization using Industrial Wastes and Bio-Enzymes, Stabilization of Expansive Soil/Soft Soil and Improvement of Soil Bearing Capacity. Modeling foundation vibration, Dynamic characterization of soil from soil suction, Response of the foundation and structure under Earthquake excitation, Reinforced Soil
4	Transportation Engineering	CBR Testing Machine, Marshall Stability Equipment, Los-Angel abrasion testing Machine, Impact Tester, Centrifuge Extractors, Dynamic Cone Pavement Penetrometer Ductility testing Machine, Softening Point measurement for bitumen, Viscometer Roughometer	Design of Air Ambulance, Soil Stabilization, Transport On Planning, Pavement Material Engineering, Traffic Safety.
5	Environmental Engineering	UV-VIS Spectrophotometer, Flame Photometer, Orion Fluoride iron plus meter, BOD incubator, Conductivity meter, Cooling incubator, sound level meter, laminar airflow cabinet.	Water and waste water quality analysis, Waste Utilization, Raw water treatment, Waste water treatment, Solid waste management, Industrial Waste management, Environmental impact assessment, River water quality modeling, Air quality modeling, Groundwater quality modeling, Noise modeling.
6	Fluid Flow Laboratory	Micro ADV, PVC pipe testing equipment, Flow tracker, Open channel flumes (4 Nos.) Pipe friction apparatus, Reynold's Apparatus, Hydrology system, Depth Echo sounder, Automatic water level recorder, Impact of Jets Apparatus, Automatic weather station, Hydraulic Bench with accessories, pitot Tubes, Current Meters, Rain Gauges, Differential Global positioning system, GIS master lab kit.	1-D and 2-D velocity measurement using Flow Tracker, 3-D velocity measurement using Micro ADV, Velocity profile and shear stress profile study in open channels, Hydraulic jump and spillway profile study, laminar, transition and turbulent flow zones study.
7	Surveying Laboratory	Electronic Total Station, Micro-optic Theodolite, Auto Level, Venire Theodolite	Measurement of distances, horizontal and vertical angles and elevations in topographic and geodetic works, 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	Development of sustainable correlate with Industrial wastes. Advanced Composites/Fibre Reinforced, Polymers, Plate and Shell Structures, Retrofitting of Concrete Structures using FRP composites. Structural vibrations	<ol style="list-style-type: none"> <li>1. K. F. Antia National Award for the best paper published in the Journal of Institution of Engineers (India) 1999-2000.</li> <li>2. Sayed Mumtaz Ali Memorial Award during 54<sup>th</sup> &amp; 55<sup>th</sup> Annual technical Session 2013 &amp; 2014 respectively for best paper published in the Technical Annual of Institution of Engineers (India) Odisha State Centre, Bhubaneswar.</li> <li>3. Er. PC Choudhury award for best paper published in the Technical Annual Journal 2018 of Institution of Engineers (India), Odisha State Centre, Bhubaneswar.</li> <li>4. Govinda Gupta memorial award for the outstanding contribution in the field of R&amp;D activity for 2018 by Institution of Engineers (India), Odisha State Centre, Bhubaneswar.</li> </ol>



2	Dr .PrakashChandra Swain	Water ResourcesManagement,Ap plicationof ArtificialIntelligenceTechniq ues toWaterResources Engg. Surface & Groundwater flow matelling	<ol style="list-style-type: none"> <li>1. Er. Banabihari Mohanty Memorial Award for outstanding research paper in the field of Irrigation Engineering by the Institution of Engineers in 1999 &amp; 2002.</li> <li>2. Awarded gold medal for contribution to the field of Electrical &amp; Electronics Engineering by Orissa Engineering Congress (2002).</li> <li>3. Damodar Sahoo Memorial Award for Best Research paper (2017) by Institution of Engineers.</li> </ol>
3	Dr. PradipKumar Pradhan	Dynamics of Soil andFoundations, MachineFoundations, GroundImprovement andReinforced soil.	-
4	Dr PradipKumar Das (On Lien)	Computational Hydraulics, Multivariate Analysis of Hydrologic System, Fluvial Hydraulics, Contamination Transport modeling for Porous media flow.	<ul style="list-style-type: none"> <li>• Gold Medal in Annual Session of Orissa Engineering Congress held on 6th February,1993</li> </ul>
5	Dr. Sudhansu Sekhar Das	Transpotation Planning,Traffic Operations andManagement,PublicTran sportation SystemTravel Behavior Analysisand Demand Models	
6	Dr.SanjayaKumar Patro	Energy Dissipation Systemsfor Seismic ResistingDesign;Utilisation of Industrial SolidWaste in ConcretePreparation; Nanotechnology – Cement;Wind induced vibration control;Seismic Vulnerability Assessment	<ol style="list-style-type: none"> <li>1. Awarded with Syed Mumtaz Ali Memorial Award in four years i.e. 52, 53, 55th 56th 57th Annual Technical Session of Orissa State Centre, The Institution of Engineers (India)</li> <li>2. Awarded with Er. Arta Bandhu Jena Award In the 54th and 58th patert on "A COMPOSITION FOR PARTIAL REPLACEMENT OF ORDINARY PORTLAND CEMENT" patert No. 303344 dt. 22.11.2018.Annual Technical Session of Orissa State Centre, The Institution of Engineers (India)</li> <li>3. Awarded with Civil Engg. Division first prize in 57<sup>th</sup> Annual session of Odisha Engineering congress.</li> <li>4. Patent on " A composition for partial replacement of ordinary Portland command" patent No. 303344/22.11.18</li> </ol>



7	Dr. Ajaya Kumar Nayak	Structural Engineering	• Doctoral Scholarship to carry out Ph.D Program at University of Southampton, UK.
8	Dr. Rakesh Roshan Dash	Water Quality & Treatment, River Bank Filtration, Waste Water	• Received French government scholarship (2002) to complete M. Tech. thesis at INSA de Lyon, France
9	Dr. Debabrata Giri	Earth-quake Engineering, Soil Dynamics, Dynamic Behaviour of reinforced Slopes	
10	Dr. Ramakanta Panigrahi	Tensegrity structures geopolymer concrete	
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 concrete using Ash Cenosphere	DST	13.25	2015-16
2.	Development of a fluoride filter for community 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 pavements using Expert System	AICTE	10.00	
6.	Development of Fuzzy-logic and Neural Network technology for flood mitigation	AICTE	16.00	
7.	Flood forecasting in river Mahanadi using hydrological and mathematical modeling	AICTE	10.00	
8.	Installation of automatic weather station	AICTE	5.00	



9.	Development of CAD laboratory	AICTE	6.00	
10	Fly Ash Generation & Utilization in CoalBased Thermal Power Stations of Odisha(2013-14)”	SPCB, Odisha		2014 -15
11	Study on Environmental Im pact of Fly ashfrom major Thermal Power Plants inOdisha”	SPCB, Odisha		2015 -16
12	UK-India collaborative Research Project (UKIERI-III) on FRP shear strengthening of damages concrete becomes subjected to fatigue loading.	UK	12.53	2018-20
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 earthquake 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
<b><u>ASSOCIATE PROFESSORS</u></b>		
1. Dr.(Mrs.) Sasmita Kumari Padhy	M.C.A (BPUT), M.Tech(BU), Ph.D (UTKAL)	<b>Soft Computing, Multiprocessor Scheduling</b>
2. Dr. (Mrs.) Sucheta Panda (H.O.D)	M.C.A (NIT,Rourkela), M.Tech(NIT,Rourkela) Ph.D (NIT,Rourkela)	<b>Image Processing (Color Image Segmentation using Markov Random Field Models)</b>
<b><u>ASSISTANT PROFESSORS</u></b>		
3. Mr. Sanjib Kumar Nayak	BE (UTKAL), PGDIT(IITKgp ) M.Tech (Tezpur)	<b>Parallel &amp; Distributed systems</b>
4. Dr. Sasmita Acharya	B.Tech (Utkal University), M.Tech (BPUT) Ph.D. (VSSUT, Burla)	<b>Wireless Sensor Networks</b>
5. Mrs. Etuari Oram	M.Tech (CSE) (NIT,Rourkela)	<b>Wireless Sensor networks, software Engineering, Data Mining</b>
6. Dr. Bighnaraj Naik	Ph.D. (VSSUT), M.Tech. (SOAU), B.E. (BPUT)	<b>Machine Learning, Soft Computing, Data Mining</b>
3. <b>Courses offered :</b>		
Master in Computer Application (MCA) Ph. D. In Computer Application		



**4. Laboratory Details :**

Sl.No.	Name of the Laboratory	Major Equipments	Research Facilities
1	Windows Laboratory	30 DELL Optiplex Dual Core Computer Systems, HP Laser Jet M1005 Printer, 10 KVA Online Console UPS, Wi-Fi Router for Wireless internet activity, 1 GBPS leased line internet facility	Data Mining, Soft Computing, Wireless Networks, Pattern Recognition, Information Retrieval, Network Security, Mobile Communication etc.
2.	LINUX LAB	Intel® Core(TM) i7-4790 CPU @ 3.60GHz RAM: 4 GB 64-bit OS, Windows 8.1 Pro	DBMS PROGRAMMING JAVA PROGRAMMING ENTERPRISE WEB-BASED COMPUTING WITH JAVA SEMINAR



**Windows Lab, MCA**



**Linux Lab, MCA**

**5. Details of research area of faculty members :**

**6. 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 accredited 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
<b><u>PROFESSORS</u></b>		
1. Dr. Chita Ranjan Tripathy (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
<b><u>ASSOCIATE PROFESSORS</u></b>		
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 (H.O.D)	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	B.Tech. (Utkal Univ.), M. Tech. (Utkal Univ.) Ph.D., (IIT Kharagpur)	Database and Information Security
<b><u>ASSISTANT PROFESSORS</u></b>		
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), PhD. (Utkal Univ.)	Cryptography & Network security, Image Processing &Fractal study



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

**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 i7-6700@3.4 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, Operativn 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 <b>S/W</b> -QualNet -Aneka Cloud -TurboC -Dev C++	Compiler Design, Database Systems, IWP Software Engineering, Cloud Computing, Computer Networks



3.	Computer Organization Laboratory	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 Controller 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 -Protious -8085 Simulator	Computer Organization Microprocessor, Digital Electronics
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. No.	Name of the Faculty Members	Research Area	Awards/Distinctions etc.
1.	Dr. Chita Ranjan Tripathy (On Lien)	Parallel Processing	Sir Thomas Ward Memorial Gold Medal 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.	Dr. Amiya Kumar Rath (on Lien)	Sensor Networks, Adhoc Networks, Embedded System	
3.	Dr. Rakesh Mohanty	Data Structure and Algorithm, OS-Scheduling, Graph Theory-Coloring, Computational Thinking, Rectangle Packing	Best Research Paper Award- ICRAET, 2012 from Hyderabad
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 Multimedia Sensor Networks	
6.	Mr. Satya Prakash Sahoo	Computer Network	
7.	Ms. Sumitra Kisan	Image Processing, Cryptography and Network Security, OS	
8.	Dr. Santosh Kumar 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 21<sup>st</sup> 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:

Name	Qualification	Specialization
<b><u>PROFESSORS</u></b>		
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.
<b><u>ASSOCIATE PROFESSORS</u></b>		
5. Dr. Manish Tripathy	B.E. (NIT, Rourkela), M.E. (S.U.), Ph.D.(IIT Delhi)	Power System Engineering
6. Dr. (Ms.) Banaja Mohanty (HOD)	B.Tech.(C.E.T, BBSR), M.Tech.(U.C.E, Burla), Ph.D(VSSUT, Burla)	Power System
7. Dr. Siba Prasada Panigrahi	B. Tech (CET, Bhubaneswar), M.E. (NIT, Rourkela), Ph. D (Berhampur University)	Energy Management, Signal Processing
8. Dr. Papia Ray	B. Tech. (Govt. Engg college, Bihar), M. Tech. (NIT Jamshedpur), Ph.D (I.I.T Delhi),	Power Systems
<b><u>ASSISTANT PROFESSORS</u></b>		
9. Mr. Basanta Kumar Rana	ME (Integrated ) (Indian Institute of Science)	Real Time Hardware and Software
10. Dr. Bidyadhar Rout	B.E. (IGIT, U.U.), M.E. (BESU, Howrah) Ph.D (VSSUT, Burla)	Control System Engineering
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. (IEST, 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) , M.Tech(N.I.T. Rourkela)	Power Electronics And Drives
21.	Mr. Amit Mallick	B.Tech (B.P.U.T), M.Tech (VSSUT)	Power System Engineering
22.	Mr. Pratyusha Pratik	B.Tech. (VSSUT, BURLA), M.Tech (IIT ROORKEE)	System and Control
23.	Ms. Sagarika Rout	B.Tech (B.P.U.T) M.Tech (VSSUT)	Power System Engineering
24.	Dr. Jatin Kumar Pradhan	B.Tech (VSSUT, Burla), M.Tech (NIT Rourkela)	Control System (Linear Control, Robust Control)
25.	Mr. K Sujita Kumar Achary	B.E. (VSSUT Burla), M.Tech. (NIT Tiruchirappalli)	Power System
26.	Ms. Bisaya Bhoi	B.Tech (IGIT Sarang) M.Tech. (VSSUT, Burla)	Power System Engineering
27.	Mr.Reddi Ganesh	B.Tech( MVGR Vizianagaram) M.Tech( NIT Durgapur) PhD continue( NIT Durgapur)	

### 3. Technical Staff details

Sl. No.	Name	Designation	e-mail 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.Akadesia Meher	Mech. Gr.I	
4	Sri.Surendra Swain	Mech. Gr.II	
5	Sri Manash Ranjan Nayak	Sr. Assistant	mrnayak_vssut@yahoo.com
6	Sri Sagar Ranjan Samal	Lab. Attendant	sagar.ranjan14@gmail.com
7	Sri Sanjib Ku. Jena	Jr. Instructor	jena.sanjib656@gmail.com
8	Sri Sameer Ku. Behera	Jr. Instructor	sameerb876@gmail.com
9	Sri Amit Ku.Sahoo	Jr. Instructor	amitsahoo78@gmail.com
10	Sri Mrutyunjay Das	Mech. Gr-III	mrutyunjaydas@gmail.com

#### 4. Support staffs:

Sl. No.	Name	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. No.	Program	course	Year of completion
1.	B.Tech	Electrical Engineering	Four
2.	Integrated Dual Degree	B.Tech. in Electrical Engineering (EE) and M.Tech. in Power System Engineering (PSE).	Five
3.	Executive B.Tech	Electrical Engineering with specialization in Power Engineering.	Four
4.	M.Tech	Electrical Engineering with specialization in a) Power System Engineering (NBA	Two



		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 & Microcontroller Laboratory	8086 microprocessor kits (LCD version), 8051 micro controller (LCD version), LCD interfacing with 8051, DAC, ADC interfacing with 8051, 8085 Microprocessor based relay testing kit, Stepper motor controller interface.
4	Network Devices Laboratory	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, Transducer & 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
8	Computation Laboratory	<p>Details of Computers and Softwares:</p> <p>System Configuration: 28Nos</p> <p>Processor: Icore 5</p> <p>RAM: 2GB</p> <p>HardDisk: 40GB</p> <p>Operating System: Microsoft Windows 8</p> <p>Software's: MATLAB and Its Tool Boxes</p> <p>EMTDC/PSCAD</p> <p>ETAP, EMTP</p> <p>TC/VC++/VB++</p>



**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	1. State Gold Medal-1998, (1st prize in Electrical, Electronics & Computer Engineering Division) conferred by Orissa Engineering Congress for a research paper in 1998. 2. 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.	
15.	Dr. Rajat Kanti Samal	Wind Power; Power Systems; Sustainable Energy	Certificate of Reviewing (Electric Power Systems Research) by Elsevier Reviewer Recognition, September 2019
16.	Mr. Debidasi Mohanty	Power Systems	
17.	Mrs. Nutan Saha	Power Electronics	
18.	Dr. Rosy Pradhan	Control & Automation	
19.	Ms. Bineeta Soreng	VLSI Design & Embedded Systems	
20.	Mrs. Prangya Mohanty	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 Pradhan	Control System (Linear Control, Robust Control)	
25.	Mr. K Sujita Kumar Achary	Power System	
26.	Ms. Bisaya Bhoi	Power System Engineering	
27	Mr. Reddi Ganesh		



## 8. Publication

		Till 2018	2019
Conferences	International	126	15
	National	7	3
Journal	International	173	32
	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 ( $\tan\delta$ ), 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.

## 2. Faculty Details:

Name	Qualification	Specialization
<b><u>PROFESSORS</u></b>		
1. Dr. Rabindra Kumar Sahu	M.E., (S.U.), Ph.D (IIT Madras) FIE, LMISTE	Power System Engineering



### **ASSOCIATE PROFESSORS**

- |    |                                |  |   |
|----|--------------------------------|--|---|
| 2. | Dr. Gyan Ranjan Biswal,<br>HOD | B.E., (Pt. RSU Raipur),<br>M.Tech. (Honours), (CSVТУ<br>Bhilai)<br>Ph.D., (IIT Roorkee)<br>FIE, LMISTE, SMIEEE | Power System<br>Automation; C&I<br>Engineering      |
| 3. | Dr. Santi Behera               | B.Tech, (C.E.T, Bhubaneswar),<br>M.E (Sambalpur University),<br>Ph.D. (NIT, Rourkela)                          | Power system stability,<br>Optimization techniques. |

### **ASSISTANT PROFESSORS**

- |     |                                       |   |                                     |
|-----|---------------------------------------|---|-------------------------------------|
| 4.  | Ms. Sarmila Garnaik                   | B. Tech. (Utkal University),<br>M. Tech. (UCE, Burla) | Communication System<br>Engineering |
| 5.  | Dr. Lingraj Dora                      | B. E., UCE, Burla),<br>M. Tech., (VSSUT, Burla)       | Communication System<br>Engineering |
| 6.  | Dr. Sasmita Behera                    | B.E. (UCE, Burla, SU),<br>M. E (BPUT), Ph. D (VSSUT)  | Power Systems                       |
| 7.  | Mr. Bibhuti Prasad Sahoo              | B. Tech (NIT, Rourkela),<br>M.Tech (IIT Roorkee )     | Measurement &<br>Instrumentation    |
| 8.  | Mr. Prasanta Kumar Parida             | B. Tech. (UCE, BURLA),<br>M. Tech. (VSSUT, BURLA)     | Communication System<br>Engineering |
| 9.  | Mr. Hemant Modi<br>(TEQIP)            | B.Tech. (NIT Meghalaya);<br>M.Tech. (MNIT Jaipur)     | Power Electronics and<br>Drives     |
| 10. | Mr. Pothuraju Prabhu<br>Kumar (TEQIP) | B.Tech. (KL University);<br>M.Tech. (IIT Roorkee)     | Power Systems                       |

### **3. Courses Offered:**

The Department of Electrical Engineering and EEE offers

- i. 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.



S. No.	Name of the Lab. (UG, BTech and PG, MTech)	Major Equipment
1	Network Theory Laboratory	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, Transducer & instrumentation kit: force, displacement, moisture, velocity measurement; Linear system simulator.
3	Analog and Digital Electronics	BJT biasing 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	<ul style="list-style-type: none"> <li>• Fellow of the Institution of Engineers (India), 2015</li> <li>• Received best paper award in IEEE International Conference on Circuit, Power and Computing Technologies (2013).</li> <li>• MHRD, Govt. of India fellowship in 2000 and 2004.</li> </ul>
2.	Dr. Gyan Ranjan Biswal, HOD	<ul style="list-style-type: none"> <li>• Power System Automation: Power Generations and Sub-station Automation (IEC 61850)</li> <li>• Sustainable Sources of Energy (HFCs and Solar PV / Hybrid Energy Systems)</li> <li>• Smart Monitoring: Smart Sensors, Intelligent Control and Internet of Things (IoT) and Cyber Physical System (CPS) in Micro-grid</li> </ul>	<ul style="list-style-type: none"> <li>• Fellow of IE (India) in year 2019; Senior Member- IEEE, USA in year 2017, and Life Member of ISTE, India in year 2004.</li> <li>• Holds one Indian Patent; filed one more.</li> <li>• Adapted one international edition book, Digital Fundamentals, Pearson India.</li> <li>• Recipient of MHRD Fellowship, and Centre for International Cooperation in Science (CICS) jointly awarded by INSA-CSIR-DAE/BRNS-CICS.</li> <li>• Recognized as Outstanding Contributions in Reviewing by ISA Transactions and Int. J. Hydrogen Energy, Elsevier for the year 2017.</li> </ul>
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	<ul style="list-style-type: none"> <li>AI Techniques for Biomedical Engg. Appln., Lap Lambert Academic Publishing, Germany.</li> </ul>
6.	Dr. Sasmita Behera	Power Systems	
7.	Mr. Bibhuti Prasad Sahoo	Power System Optimization, Measurement & Instrumentation	<ul style="list-style-type: none"> <li>Awarded MHRD Fellowship, 2009-11</li> </ul>
8.	Mr. Prasanta Kumar Parida	Image Processing and Computer Vision, Signal Processing	
9.	Mr. Hemant Modi	Power Electronics and Drives	<ul style="list-style-type: none"> <li>Awarded MHRD Fellowship</li> </ul>
10.	Mr. Pothuraju Prabhu Kumar	Power Systems	<ul style="list-style-type: none"> <li>Awarded MHRD Fellowship</li> </ul>

**6. Publications of the Department:**

		Till 2018	2019
<b>Conferences</b>	<b>International</b>	65	16
	<b>National</b>	15	02
<b>Journal</b>	<b>International</b>	48	09
	<b>National</b>	16	
<b>Book Chapters</b>	<b>International</b>	17	05
	<b>National</b>		

**7. Sponsored Research Projects (Ongoing):**

S. No.	Project Title	Principal Investigator	Project Duration	Amount (₹ 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



## DEPARTMENT OF ELECTRONICS AND TELE-COMMUNICATION ENGINEERING

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



7.	Dr. Sanjay Agrawal	B.E., M.E. , (UCE, Burla), Ph.D (Sambalpur University)	<b>Communication System Engineering / image processing</b>
8.	Dr. Harish Kumar Sahoo	B.E. (Utkal University), M.Tech. (N.I.T. Rourkela), Ph.D. (Sambalpur University)	<b>Electronic Systems &amp; Communication (MIMO OFDM Nireless Systems Adaptive Estimation)</b>
9.	Dr. Arunanshu Mahapatro	Diploma, BE, M. Tech, Ph.D (NIT Rourkela)	<b>Wireless communication, Senior networks cognitive radio</b>
10.	Dr. Nilamani Bhoi	B.E. (UCE, Burla), M.E.(Jadavpur University), Ph.D (NIT, Rourkela)	<b>Image Processing</b>
11.	Dr. Biswa Binayak Mangaraj	B.E. (UCE, Burla), M.E. & Ph.D (Jadavpur Univ.)	<b>Antenna Analysis and design</b>

### **ASSISTANT PROFESSORS**

12.	Mr. Hrudananda Pradhan	BE (UCE, Burla), M Tech (NIT, Rourkela)	<b>(Optimal antenna design) Antanna Engineering</b>
13.	Ms. Diptimayee Konhar	B.Tech, (UCE, Burla) M.Tech. (VSSUT)	<b>Communication System Engineering</b>
14.	Dr. Bikramaditya Das	B.Tech, (BPUT, Rourkela), M.Tech (NIT, Rourkela), Ph.D (VSSUT)	<b>Wireless Communication, Adaptive Control, Control of Underwater Vehicles, ROBOTICS</b>
15.	Mr. Bandan Kumar Bhoi	B.Tech (BPUT Odisha), M.Tech (IIIT Hyderabad)	<b>Digital VLSI Design, Embedded system design, Quantum computing</b>
16.	Mr. Suvendu Narayan Mishra	B.E., (Utkal) M.Tech, (VSSUT)	<b>Communication Systems Engineering</b>
17.	Mr. Aditya Kumar Hota	B.E.( S.U.), M.Tech.( VSSUT)	<b>Communication System Engg., VLSI Design</b>
18.	Ms. Madhusmita Panda	B.Tech (JITM) M. Tech (BPUT), M.B.A (H.R)	<b>Computer Science Engg.</b>
19.	Ms. Rasmita Sahu	B.E (S.M.I.T(BPUT), M.Tech (VSSUT)	<b>Communication system Engineering</b>
20.	Ms. Lopamudra Ghadai	M.Tech. (VSSUT, Burla)	<b>Digital signal processing</b>
21.	Ms. Sakambhari Mahapatra	B.Tech.(BPUT) M.Tech.(VSSUT)	<b>Communication System Engineering</b>
22.	Mr. Manasa Ranjan Jena	B.Tech., M.Tech.( IIT Kharagpur)	<b>Microelectronics and VLSI Design</b>



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

**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 Software are used for UG & PGStudents



3.	Analog & Digital Electronics circuits Laboratory	Analog/Digital storage CRO, 20/30 MHz CRO, 5MHz function/pulse generator, Analog & Digital multimeters, Multioutput power supply, Bread boards with function generator	Hardware are used for UG & PG Students
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 Software are used for UG & PG Students
5.	Microwave Laboratory	Microwave Test Benches, Microstrip Antenna trainer, PCs with HFSS (CAD tool) RF signal generator, spectrum Analyser	Hardware and Software are used for UG, PG, Ph.D Students
6.	EDA Lab.	PCs with software like Cadence, Visual TCAD, Symica	Software are used for PG, Ph. D Students
7.	VLSI Lab.	PCs with software like Vivado, PSpice, Microwind, FPGA trainer kits	Hardware and Software are used for UG & PG Students
8.	TSE Lab.	PCs with MATLAB, Online Image Software	Software are used for PG, Ph. D Students

### 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 sahu	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.

### 2. Faculty details :

Name	Qualification	Specialization
<b><u>ASSOCIATE PROFESSOR</u></b>		
1. Dr. Jayaprakash Paramaguru	M.A., Ph.D (English)	Linguistics & Translation
<b><u>ASSISTANT PROFESSORS</u></b>		
2. Mrs. Ashapura 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 :**

SI 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 :**

SI No.	Name of the faculty	Research Area
1	Dr. Jayaprakash Paramaguru	Translation, British Literature, Linguistics
2	Mrs. Ashapura 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 studies, 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 :**

<b>Name</b>	<b>Qualification</b>	<b>Specialization</b>
<b><u>ASSOCIATE PROFESSORS</u></b>		
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
<b><u>ASSISTANT PROFESSORS</u></b>		
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, Cloud Computing
7. Ms. Sasmita Behera	B.Tech (U.C.E, Burla), M. Tech (NIT Rourkela)	Computer Organization and Architecture, Computer networking



- |     |   |  |   |
|-----|---|--|---|
| 8.  | Mr. Sujaya Kumar Sathua   | B. Tech. (VSSUT Burla),<br>M. Tech. (NIT Rourkela)                                     | <b>NLP, Text mining and<br/>image processing</b>  |
| 9.  | Mr. Gyanaranjan Shial   | B. Tech (VSSUT, Burla),<br>M. Tech. ( IIT Bombay)                                      | <b>Data Mining, Soft<br/>Computing, Information<br/>Retrieval, Pattern<br/>Recognition</b>                    |
| 10. | Dr. Pradipta Kumar Das  | B.Tech., (North Odisha Univ.),<br>M.Tech (Jadavpur University)<br>Ph.D. (VSSUT, Burla) | <b>Machine Intelligent and<br/>Computer Vision,<br/>Emotional Intelligent,<br/>Robotics, Video processing</b> |
| 11. | Ms. Gargi Bhattacharjee   | B.Tech (BPUT),<br>M.E (BIT Mesra)  | <b>Software Engineering,<br/>Computer Graphics and<br/>Cryptography</b>                                       |
| 12. | Mr. Atul Vikas Lakra  | B. Tech. (UCE Burla),<br>M. Tech. ( MNIT Allhabad)                                     | <b>Cloud Computing</b>  |
| 13. | Mr. Suresh Kumar Srichandan                                     | B.Tech (UCE, Burla),<br>M.Tech (VSSUT)   | <b>Computer Networks</b>  |
| 14. | Dr. Kshiramani Naik   | B. E. (UCE, Burla),<br>M. Tech. (NIT Rourkela),<br>Ph. D. (IIT Dhanbad)                | <b>Image Processing</b>   |
| 5.  | <b>Technical Staff Details:</b>                                 |  |   |
|     | <b>Name</b>   | <b>Designation</b>   | <b>Qualification</b>  |
|     | Mr. Devi Prasanna Kanungo                                       | Junior Instructor  | B. Tech. (BPUT), M.<br>Tech. (VSSUT Burla)  |
|     | Mr. Sujit Mohapatra   | Junior Instructor  | MCA (Utkal University)<br>(UGC-NET Qualified)   |
| 6.  | <b>Support Staff:</b>   |  |   |
|     | <b>Name</b>   | <b>Designation</b>   |   |
|     | Mr. Pravat Kumar Swain  | Office Assistant   |   |
|     | Mr. Dolamani Swain  | Office Attendant   |   |
|     | Mr. Ratha Sendria   | Sweeper  |   |
| 7.  | <b>Courses Offered:</b>   |  |   |
|     | (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	Computational Laboratory, Data Structure, etc
2.	Simulation Laboratory	30 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	IoT, APLAB, etc



**Computing Laboratory – II**



**Simulation Laboratory**



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

SL. NO.	NAME OF FACULTY	DESIGNATION	SPECIALIZATION	AWARDS/DISTINCTION
1	Dr.H.S.Behera	Associate Professor	<ul style="list-style-type: none"> <li>• Data Mining</li> <li>• Computational Intelligence</li> <li>• Soft Computing &amp; Evolutionary Computation</li> <li>• Pattern Recognition</li> <li>• Distributed System</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Distinguished Scientist Award</b> (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.</li> <li>• Listed in 32nd Edition (2015 32nd Edition). of <b>Who's Who in the World</b> 32nd Edition, "<b>Marquis Who's Who</b>" USA. VIP Number: <b>36823026</b></li> </ul>
2	Dr.ManasRanjanSenapati	Associate Professor	<ul style="list-style-type: none"> <li>• Data Mining</li> <li>• Big data Analysis</li> <li>• Pattern Analysis</li> <li>• Clustering</li> <li>• Classification.</li> </ul>	Fellow of the Institution of Engineers India, 2015



3	Dr.Pradip Kumar Sahu	Associate Professor	<ul style="list-style-type: none"> <li>• Embedded Systems</li> <li>• VLSI</li> <li>• NoC</li> <li>• SoC</li> <li>• Computer Architecture</li> <li>• Microprocessor</li> </ul>	
4	Dr.Satyabrata Das	Associate Professor	<ul style="list-style-type: none"> <li>• Distributed System</li> <li>• Mobile Computing &amp; Networks</li> <li>• Real Time Systems</li> <li>• Fault Tolerant Computing</li> </ul>	<ul style="list-style-type: none"> <li>• Best Teacher Award by ISTE-2014 (Odisha, BBSR Chapter)</li> <li>• SandeepMohapatra Memorial Award- 2016. The Institution of Engineers(India), Odisha State Centre, Bhubaneswar</li> </ul>
5	Dr. D. Chandrasekhar Rao	Assistant Professor	<ul style="list-style-type: none"> <li>• Peer to Peer Network</li> <li>• Computer Network</li> <li>• Soft Computing</li> <li>• Robotics</li> </ul>	Awarded by Wipro Technologies "In pursuit of Excellence in Engineering Education through Innovation" in 2011.
6	Mr. Kishore Kumar Sahu	Assistant Professor	<ul style="list-style-type: none"> <li>• Data Mining</li> <li>• Computational Intelligence</li> <li>• Formal Languages</li> <li>• NLP</li> <li>• Cloud Computing</li> </ul>	
7	Ms.SasmitaBehera	Assistant Professor	<ul style="list-style-type: none"> <li>• Computer Organization and Architecture</li> <li>• Computer networking</li> </ul>	
8	Mr.Sujaya Kumar Sathua	Assistant Professor	<ul style="list-style-type: none"> <li>• NLP, Text mining and image processing</li> </ul>	IEEE brand ambassador 2018
10	Mr.GyanaranjanShial	Assistant Professor	<ul style="list-style-type: none"> <li>• Data Mining,</li> <li>• Soft Computing,</li> <li>• Information Retrieval,</li> <li>• Pattern Recognition</li> </ul>	



10	Dr.Pradipta Kumar Das	Assistant Professor	<ul style="list-style-type: none"> <li>• Machine Intelligent and Computer Vision</li> <li>• Emotional Intelligent</li> <li>• Robotics</li> <li>• Video processing</li> </ul>	
11	Ms.GargiBhattacharjee	Assistant Professor	<ul style="list-style-type: none"> <li>• Software Engineering</li> <li>• Computer Graphics and Cryptography</li> </ul>	
12	Mr.AtulVikasLakra	Assistant Professor	<ul style="list-style-type: none"> <li>• Cloud Computing</li> </ul>	
13	Mr. Suresh Kumar Srichandan	Assistant Professor	<ul style="list-style-type: none"> <li>• Computer Networks</li> </ul>	
14	Dr.KshiramaniNaik	Assistant Professor	<ul style="list-style-type: none"> <li>• Image Processing</li> </ul>	

#### 10. Publications

		Till 2018	2019
<b>Conferences</b>	<b>International</b>	16	04
	<b>National</b>		
<b>Journal</b>	<b>International</b>	35	14
	<b>National</b>	02	
<b>Book</b>	<b>International</b>		02
	<b>National</b>		



## 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
<b><u>PROFESSOR</u></b>		
1. Dr. Jayaprakash Panda	M.Sc., Ph.D. (Utkal)	Fluid Dynamics, Numerical Analysis
<b><u>ASSOCIATE PROFESSORS</u></b>		
2. Dr. Mahendra Kumar Jena	M.Sc.(Sambalpur Univ.), Ph.D (IIT Kanpur), PDF(IIT Bombay) IHPC Singapore)	Spline Analysis, Wavelet Analysis, Computer Aided Geometric Design
3. Dr. Susanta Kumar Paikray (H.O.D)	M. Sc. & M. Phil. (Ravenshaw Univ.); Ph. D (Berhampur Univ.)	Summability Theory, Fourier Series, Operations Research, Graph Theory.
<b><u>ASSISTANT PROFESSORS</u></b>		
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. Smrutiranjana 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)	Algebraic 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 (1<sup>st</sup> semester), Quantitative Techniques (2<sup>nd</sup> Semester)
- (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 :

Sl.No	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:**

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



### **ASSISTANT PROFESSORS**

14. Dr. Pandaba Patro Reader	B.E.(Berhampur University), M.Tech (IIT Guwahati), Ph.D ( IIT Kharagpur)	<b>Thermal (Heat Power)</b>
15. Dr. Hrushikesh Barik Reader	B.Tech (UCE Burla), M.Tech (UCE Burla), Ph.D (IIT Bombay)	<b>Thermal Engineering (Gas dynamics, Computational Fluid Dynamics)</b>
16. Mr. Debasish Tripathy	BE, (OEC,Bhubaneswar), M.Tech. (IIT (BHU)	<b>Machine Design</b>
17. Mrs. Sunita Singh Naik	B. Tech.(UCE, Burla), M.Tech. (VSSUT, Burla),	<b>Production Engg.</b>
18. Dr. Swagatika Mishra	B.Tech. (BPUT, Rourkela), M.Tech (BPUT, Rourkela), Ph.D (NIT Rourkela)	<b>Industrial and Production Engg.</b>
19. Dr. Prabir Kumar Jena	B. Tech (OEC, Bhubaneswar), M.Tech (N.I.T Rourkela), Ph.D. (NIT, Rourkela)	<b>Thermal Engineering</b>
20. Mrs. Janaki Dehury	B. Tech (VSSUT, Burla), M.Tech (NIT, Rourkela)	<b>Production Engineering</b>
21. Dr. Pragyan Paramita Mohanty	B.Tech (OSME, Keonjhar), M. Tech. (JNTU, Hyderabad, Ph.D (NIT Rourkela)	<b>Manufacturing Science</b>
22. Dr. Debasmita Mishra	B.Tech (JITM, Parlakhemundi), M.Tech (UCE Burla), Ph.D (NIT,Rourkela)	<b>Thermal Engineering</b>
23. Mr. Johnson B Lakra	B.Tech (VSSUT Burla), M. Tech (IIT Madras)	<b>Mechanical Design</b>
24. Dr. Mihir Kumar Sutar	B.Tech (IGIT Sarang), M.Tech (NIT Rourkela), Ph.D (IIT Roorkee)	<b>Machine Design, Robotics</b>
25. Dr. Madhusmita Pradhan	B.Tech (OSME, Keonjhar), M.Tech. (VSSUT, Burla), Ph.D. (VSSUT, Burla)	<b>Machine Design and Analysis</b>
26. Mr. Layatitdev Das	B.Tech (CET, Bhubaneswar), M.Tech (NIT Rourkela)	<b>Machine Design and Analysis</b>
27. Mr. Shasanka Sekhar Dalai	B.Tech (IGIT, Sarang), M.Tech (IIT Madras)	<b>Applied Mechanics</b>
28. Dr. Priyadarshi Tapas Ranjan Swain	Ph.D. (NIT, Rourkela)	<b>Thermal Engineering</b>
29. Mr. Santosh Kumar Sahu	B.Tech (BPUT), M.Tech (NIT Rourkela),	<b>Production Engineering</b>
30. Dr. Kiran Kumar Ekka	B.Tech (UCE, Burla) M.Tech (NIT, Hamirpur) Ph.D (NIT, Hamirpur)	<b>CAD CAM</b>



- |     |                      |   |                               |
|-----|----------------------|---|-------------------------------|
| 31. | Dr. Abhilash Purohit | B.Tech. (PKAC Bargarh)<br>M.Tech. (NIT Rourkela)<br>Ph.D (NIT Rourkela) | <b>Production Engineering</b> |
| 32. | Mr. Swgat Dwivedi    | B.Tech. (VSSUT Burla)<br>M.Tech. (IIT Guwahati)                         | <b>Production Engineering</b> |

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



**6. Laboratory Details :**

<b>Sl. No.</b>	<b>Name of the Laboratory</b>	<b>Major Equipment</b>
1	Dynamics and Vibration Lab	Vibration Monitoring Equipment
2	Material Testing Lab	<ul style="list-style-type: none"> <li>• Universal Testing Machine- Instron,</li> <li>• Piezo Electric Force Dynamometer</li> <li>• CVD Diamond Coating Set-up</li> <li>• Wear and Friction Monitor</li> </ul>
3	Production Engineering Lab	<ul style="list-style-type: none"> <li>• Optical Inverted Metallurgical Microscope-</li> <li>• Microprocessor Based Temperature Controlled Sintering Furnace</li> <li>• Tallysurf</li> </ul>
4	CAD/CAM Lab	MSC Nastran Patran
5	Heat Transfer Lab	Emissivity Measuring equipment
6	Thermal Engineering Lab	Cochran Boiler
7	Hydraulics and Fluid Machinery Lab	Pelton Wheel, Francis Turbine, Kaplan Turbine, Centrifugal pump, Resiprocating pump
8	Heat Power Lab	Rusten Diesel Engine
9	Refrigeration and Air conditioning lab	RAC tutor
10	Metrology Lab	<ul style="list-style-type: none"> <li>• Profile projector</li> <li>• Autocollimator, Angle Decker</li> <li>• Optical Flat</li> </ul>



**Materials Testing Lab.**



**Production Engg. Lab.**

**7. Details of the Research Area of Faculty Members :**

<b>Sl. No</b>	<b>Name of the Faculty</b>	<b>Research Area</b>
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 Design
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.
32	Mr. Swgat Dwivedi	Production Engg.

**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 31 <sup>st</sup> 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 <sup>th</sup> March 2009	AICTE (RPS)-2009	Biasing and Nucleation Study by addition of metal Powders on growth of diamond 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)/2011-12, dated 20 <sup>th</sup> 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 <sup>th</sup> February 2013	CSIR-2013	Development of NCD and UNCD diamond coatings and their characterization on cemented carbide inserts	Dr. S. K. Sarangi	3.0	21.92
5.	ERIP/ER/1203 119/M/01/1529	DRDO-2014	Development of ultrasonic absorbent 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:

- Er. Manas Bhadra (B. Tech. 2009) is actively associated with Mars Mission of ISRO
- 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
- i. 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 e-learning 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:**

Name	Qualification	Specialization
1. Dr. B. B Pani (H.O.D)	B.S. and M.S. (Russia), Ph.D (IIT Kharagpur)	Mechanical Engineering

**ASSOCIATE PROFESSOR**

2. Dr. Sushant Kumar Badjena	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)
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**ASSISTANT PROFESSORS**

3. Mr. Avala Lava Kumar	B.E. (MGIT, Hyderabad), M.Tech. (NIT, Durgapur)	Physical Metallurgy & Mechanical Metallurgy
4. 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
5. Mr. Dinesh Kumar Mishra	B.Tech (IGIT, Sarang), M.Tech (IIT, Kharagpur),	Metallurgical and Materials Engineering
6. Mr. Gautam Behera	B.Tech. (IGIT, Sarang) M.Tech (IIT, Kharagpur)	Metallurgical & Materials Engineering
7. Mr. Nilakantha Sahu	B.Tech (VSSUT), M.Tech (IIT, Roorkee),	Metallurgical and Materials Engineering (Corrosion Engineering)
8. Ms. Subhadra Sahoo	B.Tech (IGIT, Sarang), M. Tech (Jadavpur University),	Metallurgical and Materials Engineering
9. Dr. Renu Prava Dalai	B.Tech (IGIT, Sarang), M.Tech (NIT, Rourkela), Ph.D. (IIT, Kharagpur)	Metallurgical and Materials Engineering
10. Dr. Manila Mallik	B. Tech (IGIT, Sarang), M. Tech (NIT, Rourkela), PhD (IIT, Kharagpur)	Metallurgical and Materials Engineering
11. Mr. Gourahari Behera	B. Tech (NIT, Rourkela), M. Tech (IIT, Kanpur)	Materials Science & Engineering

**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	Severe plastic deformation, Metalforming, Finite Element Method, Dynamic Recrystallization, Shape memory alloys, Bio materials, Mechano-chemical Activation	<ol style="list-style-type: none"> <li>1. Nijhawan Award for Best Technical Paper, 2006, NML, CSIR, India</li> <li>2. Tamotia Award for Best Published paper on Environmental</li> <li>3. issues related to Mineral processing IIME, 2007, India</li> </ol>
2	Mr. A.Lava kumar	Superalloys, Aluminum alloys, Steels, Archeometallurgy, Nano materials	<ol style="list-style-type: none"> <li>1. 1<sup>st</sup> Prize in metallurgaphy contest in NCPCM 2015 at NIT, Rourkela.</li> <li>2. Visiting research fellow at IIT, Kanpur (2015).</li> <li>3. Best oral presentation in NMD ATM, 2015</li> <li>4. 2<sup>nd</sup> Prize in poster presentation in CSIR-NML Jamshedpur, 2015</li> </ol>
3	Ms. Suneeti Purohit	Nanoscience & Nanotechnology, Electronic materials, Physical metallurgy	



4	Mr. Dinesh Kumar Mishra	High entropy alloy, Simulation and modeling, Mechanical alloying, NMC, Powder metallurgy, process metallurgy, Iron & Steel- heat treatment and characterization	1. Best poster presentation in MRS-2017 at VSSUT, Burla
5	Mr. Gautam Behera	Power plant alloys, Rail steels, Extractive metallurgy, physical metallurgy	1. 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	Corrosion Engg (Steel), Heat treatment in EN31 Steel, Mechanical Metallurgy	1. First prize in paper presentation in symposium commission in RCC structure in Mumbai. 2. 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	Institute silver medal in M.Tech at NIT, RKL. First Prize in oral presentation in composite 2010, IIT, Kharagpur. 1 <sup>st</sup> Prize in metallography composite 2010, IIT, Kharagpur
9.	Dr. Manila Mallik	Lead-free solder, Nonindentation creep of lead free solder, synthesis of nano powder, commission and tribology composited materials.	Institute silver medal in M.Tech at NIT, Rourkela
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 most challenging 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. The department 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
Dr. Umaranjan Jena (H.O.D)	B.Sc. (Engg.) (UCE, Burla), M.Tech (III, KGP), Ph.D (Jadavpur University)	Computer Vision & Image Processing
<b><u>PROFESSORS</u></b>		
1. Prof. Piyush Ranjan Das	M.Sc. (Ravenshaw), Ph.D. (IIT Kharagpur)	Condensed Matter Physics
2. Prof. Manas Ranjan Panigrahi	Ph.D (NIT, Rourkela)	Experimental Condensed Matter Physics
<b><u>ASSOCIATE PROFESSORS</u></b>		
3. Dr. Akhyaya Kumar Pattanaik	M.Sc. (B.U.), Ph.D. (IIT, Guwahati)	Solid State Physics (Experimental)
4. Dr. Ganeswar Nath	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 Viridi	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.	<b>M. Sc. &amp; Integrated M. Sc. Labs</b>	<ol style="list-style-type: none"> <li>1. Lattice Dynamics Kit</li> <li>2. Fourier Analysis Kit</li> <li>3. Hall Effect Set Up</li> <li>4. Planck's Constant Kit</li> <li>5. Energy Band Gap Setup</li> <li>6. Photodiode Characteristics Kit</li> <li>7. Optical Fiber Kit: Estimation of Numerical Aperture</li> <li>8. Calculation of e/m by Thompson's Method</li> <li>9. Michelson's Interferometer</li> <li>10. B-H Curve Kit</li> <li>11. LED &amp; Laser Diode Characteristics</li> <li>12. GM Counter</li> <li>13. Curie Temperature Setup</li> <li>14. Four Probe Method</li> <li>15. Fermi Energy Kit</li> <li>16. Stefan's Constant Kit</li> <li>17. Solar Cell Apparatus</li> <li>18. ESR Spectrometer</li> </ol>



2.	<b>B.Tech. Lab</b>	19. Young's Modulus by Searle's Method 20. Millikan's oil drop Experimental set up 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.	<b>Research Labs</b>	<p><b><u>Advanced Materials Laboratory</u></b></p> 1. Muffle Furnace ( up to 1700 <sup>0</sup> C) 2. Tubular Furnace 3. Planetary Ball Milling Machine 4. Hydraulic Pressure 5. Oven 6. Vibrating Ball Milling Machine 7. Sonicator 8. Density Measurement Kit  <p><b><u>Ultrasonics &amp; Acoustics Laboratory</u></b></p> 1. Multi Frequency Ultrasonic Interferometer 2. Water Circulating Bath 3. Digital Weighing Balance

**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	
2.	Prof. M. R. Panigrahi	Experimental Condensed Matter Physics, Thin Film	Nominated for world's who's 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. Parthasarathi Award-2016 by Ultrasonic Society of India.
5.	Dr. S. Sengupta	Computational Quantum Mechanics	
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 <sub>3</sub> -x PbTiO <sub>3</sub> 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 preperation 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 parsing.



## 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
<b><u>PROFESSORS</u></b>		
1. Dr. Debadutta Mishra	B.Sc. (Engg.) (CET), M.Sc. (Engg.) (NIT, Rourkela) Ph.D (S.U.)	Production Engg.
2. Dr. Debabrata Dhupal	B.E.( Utkal University), M.E (Jadavpur University) Ph.D(Engg), Jadavpur University DIBM (IGNOU)	Micromachining, Advance Manufacturing Process, RP & Non-traditional machining, Metal Cutting.
<b><u>ASSOCIATE PROFESSORS</u></b>		
3. Dr. Kamal Pal (H.O.D)	B.E (Jadavpur University), M.E (BEC, Kolkata), Ph.D (IIT Kharagpur)	Production Engineering
4. Dr. Arun Kumar Rout	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
<b><u>ASSISTANT PROFESSORS</u></b>		
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.	<ol style="list-style-type: none"> <li>1. Engine Lathe</li> <li>2. Polishing Machine</li> <li>3. Tool Grinder</li> <li>4. Acoustic analyzer</li> <li>5. Tool Maker's Microscope</li> </ol>	<ol style="list-style-type: none"> <li>1. Vibration analysis of cutting tool.</li> <li>2. Noise analysis of cutting tool</li> <li>3. Polishing of specimen</li> </ol>
2	Metal Forming Lab.	<ol style="list-style-type: none"> <li>1. Shearing Machine</li> <li>2. Hydraulic Bulging machine</li> <li>3. Hydraulic press</li> <li>4. Universal testing machine</li> </ol>	<ol style="list-style-type: none"> <li>1. Forward &amp; Backward Extrusion</li> <li>2. Hydraulic bulging &amp; Deep draining</li> <li>3. Tensile, compression &amp; Bending Test.</li> </ol>
3.	CAD Lab.	1. CATIA, ANSYS, Solidhllar VS	1. Modelling & Simulation
4.	Virtual Mfg. Lab.	<ol style="list-style-type: none"> <li>1. Open CIM</li> <li>2. I-GRIP</li> <li>3. QUEST</li> <li>4. SIMUL@</li> <li>5. Workspace 5</li> <li>6. 3D Printer</li> <li>7. 3D Scanner</li> </ol>	<ol style="list-style-type: none"> <li>1. CIM Model simulation</li> <li>2. Robot Workspacesimulation</li> </ol>
5.	Robotics & FMS Lab.	<ol style="list-style-type: none"> <li>1. CNC Lathe,</li> <li>2. CNC Milling,</li> <li>3. ASRS</li> <li>4. Linear shuttle conveyor</li> <li>5. Pallet conveyor</li> <li>6. Loading unloading arm</li> <li>7. Aristo robot</li> <li>8. Scara robot</li> </ol>	FMS model simulation
6.	Metrology Lab.	<ol style="list-style-type: none"> <li>1. Profile Projector</li> <li>2. Portable Surface roughnesstesting,</li> </ol>	



		3. Micro hardness testing 4. CMM	
7	Non Traditional Machining Lab.	1. Laser beam machining 2. USM Set up 3. EDM set up 4. AJM set up	Micromachining of metals and ceramics
8	Advance Manufacturing Lab.	1. CNC EDM 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	<ul style="list-style-type: none"> <li>• Semi-solid processing of light weight materials.</li> <li>• Thermal processing of liquid metals.</li> <li>• Solidification, macrosegregation and characterization of materials.</li> </ul>



6	Dr. Pankaj Charan Jena	Design, Modeling, Fabrication and Mechanical Charecterization of <ul style="list-style-type: none"> <li>Fibre (Glass/Carbon/Agriculture-waste) Reinforced/ Particulate Polymer Composite Structure</li> <li>Functional Graded/Smart Materials Structure</li> </ul> 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	<ol style="list-style-type: none"> <li>Laminated composite structures/ Curved structures</li> <li>Numerical/Experimental nonlinear mechanical responses</li> <li>Nonlinear FEM</li> <li>Smart (SMA, PZT and Magnetostrictive material) Composite Structures</li> <li>Vibro-acoustic Analysis of Laminated/ Smart Structures</li> <li>Functionally Graded Material (FGM), FG-CNT</li> </ol>

- 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



## DEPARTMENT OF TRAINING AND PLACEMENT

Name	Qualification	Specialization
<b>PROFESSOR, T&amp;P</b> <b>Dr. Prasanta Nanda</b>	B.Sc (Engg) (Hons) (OUAT) M.Tech (IIT, Madras) Ph.D. (Jadavpur)	CFD & Heat Transfer

### A. Scope

Proper planning of the Technical man power is considered to be very important for the growth of the country. Govt. of India has given utmost importance to the engagement of the Engineering graduates in Technical establishments soon after their graduation. In all technical institutions in the country, there are separate department of training and placement to impart meaningful training to the students and to guide them to choose right career. The following are the various activities of the Training and Placement section of the University.

### B. Educational Tour

Educational tours provide firsthand knowledge about field application of technical knowledge and help widen the overall concept. The training and placement department arranges such tours for the students. Local tours of duration 1 to 3 days are conducted to different industries.

### C. Career Guidance

Career guidance programmes are being conducted by this department to help students to know the avenues before them or to choose

the career they wish to take up and succeed in recruitment test Career counselling helps the students in choosing a right career and accordingly they prepare themselves well in advance. Special care is taken to expose the students to various career alternatives such as entrepreneurship. Personality Development and Subjective coaching Programmes are also conducted for the students to prepare them for various competitive examinations, group discussions and interviews. These programmes are conducted through reputed agencies such as Career Launches, Time, IMS & Mafoi. Besides, experienced persons from nearby industries are also invited to conduct such programmes. Companies like SUN and INFOSYS recognize this institute and have appointed ambassadors who impart technical training.

### D. Campus Interview

Many industries of repute, engineering organisation, consultancy services as well as defence organisations are invited to participate in Campus Recruitment programme conducted



in the University for final year and pre-final year students. At times, the students are also sent to different organisations for GET selections. Organisations like IBM, SATYAM COMPUTERS, iGATE, Tech Mahindra. TATA MOTORS, SAMSUNG, Vodafone, Hexaware, Tavant, PPI, Essel Mining, TATA SPONGE IRON LTD. JINDAL STEEL, TELCON, INT AUTO LTD, TATA MOTORS, L & T. TRL, IMFA. HINDALCO, MAHINDRA & MAHINDRA. MINDTREE, TCS, Wipro, INFOSYS, HP PAPER, POLARIS, HCL VEDANTA, ACC. SIMPLEX CONSTRUCTION visit our University for campus interview. Many graduates get appointments in Public Sector Undertakings like SAIL, NTPC, NALCO, MCL, ONGC. IPCL and HAL through competitive written tests and interviews. A few brilliant and top ranking students go for higher studies through GATE / CAT / XAT examinations. Necessary information on the above job opportunities and higher study are made available to the students in Training and Placement Department. Our graduates and Post graduates are highly rated and respected in both core and software industries.

#### **E. Entrepreneurship Motivation**

Technical graduates are considered to be the most potential section of human resource for the growth of small scale industry. The department organises Entrepreneurship

Awareness Camps with the help of Entrepreneurship Development Cell with a view to motivate them to take up entrepreneurship as a career.

#### **F. Other Activities**

The department keeps close contact with the Industrial establishments including Govt, Public Sector and Private Undertaking for mutual interaction between industry and technical institution. Advertisement and other information like students participation in technical seminars are brought to the knowledge of the students. Technical events like Wipro Coding Text & Orientation programme from Industrial Houses are organised. Students are getting a chance to sit for large number of companies by setting for standardised tests like PAC, Pep-SyQuest, etc. Every year, our students excel with many prizes in all India technical paper contests conducted at NITs & IITs. The department provides other facilities like Train, Bus and Air concessions to the students twice a year to enable them to go home/ training place during vacations. The department organises practical training for all students. There is a plan to build superior infrastructure for placement activities.



## CENTRAL COMPUTER FACILITY

**Dr. Suvasini Panigrahi**

Associate Professor in Computer Sc. & Engg.

**Professor In-charge**

The Central Computer Facility of the University was established in the year 1987, with financial assistance from MHRD, Govt. of India as a Zero level facility. During year 1992-93, HCL-HP Meteor-III UNIX server with a number of nodes and PCs were installed. The facilities have been upgraded and expanded from time to time. In the year 1998 an advanced Pentium based SCO-Unix server with 15 terminals was added and a good number of application software have been installed. The Central Computer Facility has been given a face-lift through a MODROBS project of All India Council for Technical Education, New

Delhi. Another P-Windows. NT based server, a larger number of P-III and Celeron PCs, other terminals have been added during 1999-2000 through the project grant. During the golden look at the present day's needs, software's like JAVA, ORACLE, Visual Studio etc. have been kept open for the benefit of the students. Facilities also exist for using various languages like C, C++, Java in various operating environments like WINDOWS, DOS, UNIX and LINUX.

In the recent past another 35 Nos. of Pentium-IV PC have been added to the Centre.

## CENTRAL INTERNET FACILITY

**Dr. Manas Ranjan Kabat**

Associate Professor in Computer Sc. & Engg.

**Professor In-charge**

The Central Internet Facility is one of the Central Facilities available in the University which caters the need of the students, faculty and staffs in performing various activities like conducting on-line tests for campus recruitment and web browsing for project & research work.

The University has a campus wide data communication network based on Ethernet technology. The entire academic building and all hostels in the campus are covered under LAN with Cat-6 UTP cable & fiber optic backbone thus connecting all the departments, laboratories, and Office and individual faculties. The University is availing 1 Gbps internet connectivity from BSNL under NME-ICT scheme

of MHRD Government of India initiative. This will enable the University to become a member of National Knowledge Network (NKN).

The Internet Center in CIF is equipped with 100nos. of desktop computers for browsing of students and staffs and also conducting different on-line tests. The network is used for accessing the web site of the University which provides insight information of various sections of the institute, e-mail, Internet, Database Access; Server for research information facility.

The Internet center remains open from 8.00AM to 8.00PM on all working days of the University.



## CENTRAL LIBRARY



**Dr. Harish Kumar Sahoo** - Professor in-charge

**Dr. Archita Nanda**- Librarian

### A. General Information

The University Library is the largest technical library of the State. A new separate library building has come up with the assistance from U.G.C. and State Govt. and the library has started functioning in its newly constructed building since July, 1997.

The new library building is a three storied one having area of 10,900 sq. ft. The different sections of the library have been planned in different floors. The ground floor is used for the Circulation Section and the General book Bank. The first floor houses the Journal Section, Reference Section, Reprographic Section and the Administrative Section of the Library. The top floor is used for Text Book Section. There is a reading hall with capacity for 100 students in this floor. A portion of this floor is used for housing the SC/ST Book

Bank. The Library remains open from 8.30 AM to 8.30PM on all working days of the week except in the hot summer months (April & May) during which there is a break from 1 PM to 2.30 PM.

The total collection of the Library is around 66,500 volumes including books and bound journals. About 70% of the total collection is of Engineering disciplines and remaining 30% is of Science, Humanities and General reference type. The central Library is fully automated by using SLIM 21 automation software. The Library subscribes 74 nos. of print journals, 3605 E-Journals and 8 Databases.

### B. Library Rules :

1. All the Library users must be a member of VSSUT Library. They must bring their library cards before entering the library.



2. The users of the Central Library are advised to put their signature in the register while entering the library.
3. Library users are advised to keep their all personal belongings at the property counter except notebooks, pager, calculator, tablet while entering the library.
4. The library user shall not engage in audible conversation in any part of the Library.
5. The user shall not write upon, damage or mark any book belonging to the Library.
6. A person responsible for any damage caused by him/her to the books or any other property belonging to the Library, shall be required to pay the penalty imposed upon him/her by the Librarian.
7. Use of mobile phone in the Library is strictly prohibited.
8. The reader should check the books before borrowing to insure that these are not damaged. If a book is found to be damaged or certain pages are missing, the borrower should get this statement recorded on the book, otherwise he/she shall be held responsible for the damage, found at the time of returning the books.
9. Smoking, pan chewing and spitting in the Library are strictly prohibited and punishable offence.
10. Photography is not allowed.
11. Membership privileges of a user can be suspended on account of misbehavior with the Library staff or for indecent manners.
12. B.Tech, MCA and 5 yrs. Integrated M.Sc & M.Sc (two years) students can issue three (3) nos. of books and M.Tech, M.Phil students can issue (4) nos. of books for two weeks. The Research Scholars can issue 2 nos. of books for two weeks.
13. Faculty members can issue ten (10) nos. of books and for one semester failure in which fine shall be collected as per Library rule. The staff of the university can issue two (2) nos. of books for one semester.
14. The overdue charges may be imposed @ 0.50 paise per day per book.
15. The users are not allowed to reissue the same book which is returned on the same day.

**Rules regarding recovery and replacement of books :**

- A.** If the book is lost, the user has to replace with current edition of the book. Otherwise double of the purchased cost shall be levied.
- B.** If the rare books, out of print books or journals are lost, then the user will be insisted to replace the same, otherwise 20 times of the purchase value of the same shall be recovered.



### C. Working hours of the Central Library :

The Central Library function from 8.30 a.m. to 8.30 p.m. from Monday through Saturday in two shifts. During summer timing (April & May) the Central Library open from 7 a.m. to 1 p.m. and 2.30 p.m. to 8.30 p.m.

### Circulation of books :

The transaction of books from Monday to Friday is from 8.30 a.m. to 5 p.m. with a break from 1.30 p.m. to 2.30 p.m. No transaction on Saturday.

### D. Library Resources :

The resources includes Books, Bound Journals, Print Journals, News Papers, Magazines, E-resources, CD-ROM, etc. The books contain text books and reference books including Thesis, Dissertation, Encyclopedia, Year Book, Manuals, Bibliography, Dictionary, Bhasakosha, Standards etc. At present there are more than 57,477 volumes of books and 9024 bound volume journals in the library. Currently more than 8 nos. of Magazines and 8 nos. of News Papers are subscribed by the library. Moreover the library subscribed 65 nos. of periodicals including Indian and Foreign journals.

The total collection of the library is as follows :

Collection	Total
Books	57,800
Back Volumes of Journals	9024
Print Journals	20
Magazines & Newspapers	16
Online e-journals	3605
E-resources	13
Bibliography database	1
Trunitin plagiarism check software	1
NPTEL Course material (Koha. Integrated Library Management system)	2

### E. Resources :

It has been a continuous endeavor at VSSUT, Burla to enhance the qualitative research, and in the information age, e-resources are significant high quality resources. For this purpose, VSSUT has subscribed to a number of national as well as international databases.

These include Elsevier's Science Direct, Springer journal, Taylor & Francis Journal, American Chemical Society, Royal of Chemistry, Economic & Political Weekly, ISID JCCC, ASME, ASCE, Scopus Bibliographic database, ASPP, American Institute of Physics, American Physical Society. World e-book Library, South Asia Archive (SAA)

### F. Services provided by central library

- Circulations of Books
- Reference Service



- Internet based Lab facility
- Library Orientation
- E-journals
- NPTEL Online Course
- Turnitin Plagiarism Check Software
- Periodicals & News Papers
- OPAC
- New Arrivals

**G. Books Bank Facility :** Books issued to students for one year at one-sixth price of the book.

**Text Book Section :** more than 5080 nos. of books are there in Text Book section. These books are issued to the students and faculty of the

university for reading purpose in the reading hall of the library.

**H. SC/ST Book Bank:** There is a SC/ST books bank with about 13,063 books. Seven books are issued to the SC/ST students for one academic year only on each semester.

**I. Journal Section :** The journal section has about 9024 bound volumes. The current journals are displayed in the display rack. The user has free access to the journal section which is kept open during working hours. Unbound journals are not issued to any members.



**Text Book Section**



**Reading Room**



## CENTRAL WORKSHOP



### **Dr. Rabindra Behera** **Workshop Superintendent**

The workshop has eight sections equipped with machines and tools for the following activities.

- a) Training of students in various trades of the workshop.
- b) Fabrication work for the project of UG/ PG students
- c) Preparation of test specimens.
- d) Other departmental job works as and when required.

#### ***Different Sections of the Workshop :***

1. Machine Shop : The important machines includes Sharper, Milling machine, Planer, Slotting machine, Surface Grinding Machine,

Radial Drilling machine, Gear Hobbling Machine.

2. Turing Shop- Thirteen nos. of engine lathe machine.
3. Welding Shop – Gas and Arc welding set up, Plasma cutting, MIG, TIG, spot welding.
4. Black smith Shop – Hand forging tools, Power Hammer.
5. Carpentry Shop – Wood working Lathe, Planer and Circular Saw.
6. Foundry Shop – Pit and Oil fired furnace, Hand tools for green moulding and cupola.
7. Fitting Shop – Hand tools for fitting and Sheet metal working
8. CNC Lathe Shop.

## CENTRAL TRANSPORT

### **Dr. Rabindra Behera** **Workshop Superintendent** **Professor In-charge**

The University provides central transport facilities to both students and staff. The vehicles under this facilities are :-

- (i) One bus (50 seated)
- (ii) One Innova Car
- (iii) Three Cars hired for official work.

The buses are used for attending industrial tours, athletic meet. Cars are used for official work including the works of Training and Placement department. The vehicles are the best of its kind and confirm to environmental and safety norms.



## HALL OF RESIDENCE FACILITY

**Prof. Sudhansu Sekhar Das**  
Dean, Students' Welfare

**Dr. Smrutiranjana Mohapatra**  
Coordinator, Students' Welfare

Since inception every effort has been made at the institute to provide the best facility for students who live on campus. Every student has access to a wide range of activities, facilities and supports. Besides the regular hall dining facilities, there are affordable food services on campus that provide inexpensive and easily accessible evening options.

Out of eight nos. of Halls of Residence in VSSUT campus, there are five halls of residence for boys which accommodate nearly 1000 students in two / three / four bedded rooms and three halls of residence for girls accommodating 600 students.

The mission of VSSUT is boldly displayed at all important and strategic points in the Halls of residence areas. This dictum silently contributes to the healthy environment of commitment and discipline among the students.

The students are encouraged to develop community life and inculcate the spirit of tolerance, thus taking care of their psychological and emotional problems and shape themselves to be better citizens.

The well maintained and spacious vegetarian and non-vegetarian dining halls in the Halls serve wholesome, nutritious food.

The students are advised to give contact address of their parents correctly. In case of change of address, the parents/guardians are requested to send their latest address and

phone No. etc. by Regd. Post to Dean, Students' Welfare.

Furnishing latest address to the University is the responsibility of the parents/guardians.

### FUNCTION

To plan and look after the overall development, maintenance of all halls uniformly on a central basis. To plan and look after the smooth and economic functioning of hall messes on a uniform basis. To verify and issue no dues certificate to the boarders.

### COUNCIL OF HALLS OF RESIDENCE

The Council of Halls of residence shall meet at least twice in a year for:

- (a) Preparing general development guidelines on management to maintain uniformity in the Halls of Residence.
- (b) Preparing development plan and proposal of Halls of Residence campus.
- (c) Smooth and economic running of Halls of Residence.

Office Bearers of the Council of Halls of residence

1. President : Vice-Chancellor
2. Vice- President : Dean, Students Welfare
3. Secretary : A student representative of final year nominated by Dean, Student's Welfare.



4. Asst. Secretary: A student representative of pre-final year nominated by Dean, Student's Welfare.
5. Members: (i) Wardens and Asst. Wardens of all the Halls of Residence  
(ii) Three student representative from each Halls of Residence namely (elected / nominated by Wardens of respective halls.
  - (a) Development Secretaries
  - (b) Library Secretaries
  - (c) Common Room Secretaries
  - (d) Games Secretaries
  - (e) Mess Committee representative
6. Members to be co-opted: Maintenance Engineer, Supervisor, Elect. Maintenance and such Officers and Staff of University as and when necessary.

#### **MEETING COUNCIL OF HALLS OF RESIDENCE**

Dean, Students' Welfare shall act as convener of the meeting. Date, time and venue for the meeting shall be decided in consultation with the President. Secretary of the Council of Halls of Residence shall take down the proceedings of the meeting and maintain the minutes.

#### **RULES FOR HALLS OF RESIDENCE**

These rules are applicable to all the Boys, Girls, Halls of Residence. Boarders are required to share the duties in maintaining discipline in the University and Halls of

Residence and running their messes economically and keeping their Halls of Residence clean. They are advised to follow rules as given below:

- i) Admission and continued stay in the Halls of Residence depends upon academic performance and also on good behavior and conduct. Students must occupy rooms specifically allotted to them. They are not allowed to change rooms except the written permission of Warden. However students can pair up as per their choice within first few days.
- ii) They should not keep valuable and costly items in their rooms. They shall take due care of their belongings and deposit money in Bank or Post Office.
- iii)(a) They shall keep to the hours set for the meals and studies Normally study hours are 7.00 PM. to 9.30 PM. There shall be no disturbance during study hours. No boarder is ordinarily allowed to remain absent in the hall or leave the Hall of Residence without prior written permission of the concerned Warden.  
Boarders are not allowed to go outside on short holiday(s) except for exigencies with the permission from their parents / local guardians
- iv) A student shall use only one CFL bulb not exceeding 30 watts. Uses of all unauthorized electrical appliances such as heater etc. are strictly prohibited. Use of mosquito net is compulsory for each boarder.



- v) Each Boarder should check the furniture & electrical fittings in his room at the time of occupation and take over the furniture & fittings in writing which are returnable at the time of vacating the room. Any loss or damage will be borne by concerned boarder.
- vi) No boarder is permitted to allow an outsider to stay in his room without the written permission of the Warden. Presence of undesirable persons should promptly be reported to the Wardens.
- vii) Possession, consumption of Liquor and Narcotics and Gambling are strictly prohibited in the Hall of Residence.
- viii) Noisy Games, playing Musical Instruments etc. which are likely to disturb other students are strictly prohibited in the Hall of Residence.
- ix) No meeting shall be held in the Hall of Residence without approval of the concerned Warden.
- x) Boarders are required to make their rooms available for repair, maintenance inspection by Warden when necessary. The Warden reserve the right to break open room in case of any violation of rules of Hall of Residence suspected unlawful activities or on the basis of security risk perceived.
- xi) Boarders shall treat their fellow boarders, University staff, staff with dignity and decorum Ragging in any form is strictly prohibited and is banned Surprise checks to this effect will be done by Warden especially during the night hours.
- xii) Dining in the hall mess (meals & Tiffins) is compulsory for all boarders Individual cooking or taking meals outside is not permitted
- xiii) Mess dues shall be paid in advance for one year at the time of odd semester registration. University dues will not be accepted unless hall and mess dues are cleared. Failing to pay mess dues in time, a boarder is liable to pay fine for late payment and Admit Card for appearing Examination will not be issued by the University.
- xiv) Students not on University Rolls are not allowed to stay in the Halls of Residence
- xv) The messes of residence of Halls of Residence will normally runs during all working days except vacation irrespective of no. of boarders. The Dean, Students Welfare may allow a boarder to stay in the Halls of Residence on some valid ground for a specific period. All such boarders are required to apply to the Dean, Students Welfare through their respective Warden.
- xvi) The boarders are generally discouraged to remain absent from Halls of Residence during weekends and holidays (except Puja holidays). They are allowed exemption of maximum six meal charges during their absence with prior permission from the concerned Warden. However, further exemption may be allowed on genuine grounds (absence due to official assignment,



- hospitalization or any kind of emergency conditions) with prior permission of the concerned Warden.
- xvii) Non-regular and Non-collegiate students wishing to appear a Semester examination may be allowed to stay in the Halls of Residence temporarily with the permission of the Dean, Students Welfare. Such students are required to deposit the hall dues in advance and undertake to abide by the rules of Halls of Residence
- xviii) A student who is the victim to any sort of indiscipline activity caused by other must inform the Warden of the concerned Halls of Residence/Dean Students' Welfare as early as possible by phone and written complaint describing the details of the incident including the names of the offenders or miscreants. Suppression of facts will not be tolerated.
- xix) Keeping mechanised vehicles (Scooters, motor cycles, four-wheelers etc.) in the Hall premises is strictly not allowed.
- xx) Special Rules for Halls of Residence for Girls
- (a) They are allowed to meet their local guardians and parents during the visiting hour i.e. 4pm to 6pm in the visiting room only. After 6p.m. no visitors will be allowed.
- (b) In any case they are not allowed to meet the boy students of this University near the ladies hall campus, even if he happens to be her relative.
- (c) During the class hours they are advised to go to the University and return directly to the Halls of Residence without stopping anywhere on the way.
- (d) They are not allowed to stay outside the Halls of Residence between 6p.m. to 5.30 a.m.
- (e) They are not allowed to leave Halls of Residence. If necessary, they can go to market for maximum of 2 hours for purchasing required things after properly entering information in the register of temporary absence available with the guards at the gate. In any case they must return to hall by 6p.m. (October-February) and 6.30p.m. (March-September).
- (f) Hall Prefects may be nominated from amongst the boarders to assist the Warden/Asst. Warden. The hall room of any student can be inspected at any time by Prefect, Warden, Asst. Warden or any official of the University.
- (g) Girl students wishing to leave the Halls temporarily must inform the Warden atleast before 24 hours along with the permission / request letter from their parents.
- (h) Parents / local guardian must pick up their wards from the Halls in case exigencies during non-vacational / sort holidays. This is a must.
- (xxi) The Prefect shall ensure that
- (a) Boarders observe Hall rules and regulation, which are in or vogue may



be framed by the Council of Halls of Residence authorities from time to time.

- (b) In case of sickness and accidents, Boarders avail medical care as is provided at University Dispensary, V.S.S. Medical University Hospital of Burla and inform Warden/Asst. Warden.

(xxii) **Mess Secretary and Members of Mess Committee shall ensure that**

- (a) Weekly menu (Monday to Sunday) to be prepared by the Mess Secretary / Mess committee and approved by Asst. Warden and then notified at least two days in advance.
- (b) There is no wastage and lavishness.
- (c) One fortnightly changed diet (Mini feast) not costing two times that of a normal meal rate is allowed. Mess Secretary shall get approval of Asst. Warden about the menu and cost per meal before having such a changed diet. No grand feast is allowed without the approval of Warden and agreed by the Dean, Students Welfare.
- (d) The Kitchen, Dinning Hall are to be kept in clean and hygienic condition.
- (e) Mess Secretary/Committee shall ensure that mess bill is reasonable and near uniform for all the Halls of Residence of weekly check is done by the Asst. Warden and report it to the Warden for bringing down the expenditure.

- (f) Asst. Warden with the consent of Warden shall constitute such Audit Board for Mess as and when he feels to do so.

- (g) Mess Secretary/Committee and Asst. Warden shall meet frequently for purchase of food items from the market. No purchase can be done without the approval of Warden. Weekly payment is to be made by the Warden through Bank Cheque by the Hall office on the recommendation of Asst. Warden. Rs. 500/- as imprest money can be drawn by the Mess Manager for small and urgent purchase.

- (h) Warden /Asst. Warden shall be informed if any irregularity is observed and prompt action will be taken in such matter.

- (i) Warden /Asst. Warden shall be informed if any irregularity is observed and prompt action will be taken in such matter.

(xxii) **Common Room Secretary shall ensure that**

- (a) Common Room, TV room and surrounding area are kept neat and clean.
- (b) Electrical fittings are maintained properly and is not being removed and taken to rooms.



- (c) Periodicals and Newspapers are not removed. However, old periodical, may be issued to boarders, on loan for a couple of days.
- (d) Common Room Secretary shall prepare the budget and get the approval of the Warden. No expenditure can be made without prior approval of the Warden.
- (xxiii) (a) **Games Secretary** shall prepare the budget for various indoor and outdoor games and implement it after getting the approval of the Warden.
- (b) He should ensure that borders get facilities for games. The timing should be such that the boarders are not disturbed during study hours.
- (xxiv) **Literary Secretary** shall prepare a budget for various literary activities in the Halls of Residence implement it after getting the approval of the Warden He/she should play an effective role in the University literary activities so that more boarders of his/her hall take part in such activities.
- xxiv) Development Secretary shall ensure that
- (a) Lavatories, Corridors and Surroundings areas are kept neat and clean. Hall garden is maintained properly.
- (b) Electrical fittings at places other than rooms are properly maintained. He/she should also ensure that no body removes the fitting and tube/bulbs for his/her personal use.
- (c) He/she is required preparing a budget for replacement of old fittings and tubes and getting the approval of Warden.
- (d) He /she also required to inform the Caretaker and Warden in case the hall Gardeners/Sweepers is not doing their duty properly.
- (e) All hall representatives and prefects must ensure that proper discipline is being maintained by their fellow borders in the hall. They should also ensure that no boarder disrespect, misbehav any hall, mess and University employees working in the hall. Such cases should be immediately informed to the Warden for proper action.

## DISCIPLINARY COMMITTEE

**Chairman :** Dean, Students Welfare

**Members:** Dean, Academic Affairs, Heads of all Engineering Departments & Wardens of respective Hall of Residence.

The committee holds enquiry and investigates into all matters of in disciplinary relating to students of University and recommends for award of punishments to the deserving students of the University. The chairman may co-opt the Warden of Halls / Vice-President of Societies as invited members as per necessity on different occasion.



### Ragging Prevention Committee

A Ragging Prevention Committee is hereby constituted with the following members in the line of Hon'ble Supreme Court Orders and UGC guide lines to assist the University authorities in prevention of ragging.

1.	Dean, Students' Welfare	-	Convener
2.	Registrar, VSSUT, Burla	-	Member
3.	COF, VSSUT, Burla	-	Member
4.	All Faculties Members of VSSUT	-	Members
5.	All Non-Teaching Staffs of VSSUT	-	Members
6.	Student representatives from all year (15 Nos.)	-	Members

### Hall Wise Ragging Prevention Committee:

Warden	–	Chairman
Asst. Warden	–	Member
Care Taker	–	Member
Hall Asst.	–	Member
Development Secretary	–	Member
Common Room Secretary	–	Member
Topper of each wing	–	Member
3 to 4 active Boarders	–	Member

### Anti-Ragging Squad:

3 to 4 active Boarders	–	Member
Dean, Students' Welfare	–	Convener
All HOD's	–	Members
All Wardens	–	Members

### GRIEVANCE AND APPEAL COMMITTEE FOR WOMEN EMPLOYEES AND STUDENTS:

Chairman: Dean, Students Welfare.

Members:

Registrar

Non-member Convener (Ex-officio)

### Function:

To consider and enquire into the grievance /appeal of the women employees and students



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**GRIEVANCE AND APPEAL COMMITTEE FOR SC/ST EMPLOYEES COMMITTEE FOR SC/ST EMPLOYEES AND STUDENTS.**

**Function:**

To consider and enquire into the grievances / appeal of the SC/ST employee and students of the institute and recommend solutions to the Central Grievance and Appeal Committee.

**STUDENT ACTIVITY COUNCIL: (SAC)**

Chairman: Dean, Students Welfare (Ex-officio)

**Members:**

Associated N.C.C. Officer (ANO), 3(O) CTC NCC, VSSUT Burla, N.S.S. Coordinator, Vice-Presidents, Secretaries and Assistant Secretaries of all the students Associations, Clubs, Societies such as Students Cultural Association, SSG & Students' Aid Fund, Dramatic Association, Clubs, Societies, such as Students Cultural Association, SSG & Students Aid Fund, Dramatic Association, Music Club, Athletic Club, Art & Photography Club, Literary Society, Audiovisual Club, Robotics Club, Galaxy, Samavesh, Yoga Teacher-in-charge, ISTE Students Chapter, SAE Students Chapters.

**NATIONAL CADET CORPS (NCC)**

Presently the University has one platoon of 3(O) CTC NCC with two wings Senior Division (SD), Senior Wing (SW) and a teacher is acting as associated NCC officers for the Platoon.

**Associate N.C.C. Officers:**

- (i) Lt. Er. Birendra Kumar Barik, Asst. Professor in Production Engg.

N.C.C./N.S.S. is compulsory at the 1st year level & offered for the benefit of the students as it builds their character, leadership, officer like qualities and helps them in selection for defense services. NCC aims at creating a force of disciplined and trained manpower to help the country in a national emergency.

1. Students of the University who volunteer to join N.C.C. are enrolled in the Engineers or Signals Platoons of 3, (Odisha) Composite Technical Company N.C.C. The intake strength of the platoon is 150 only.
2. Total of 120 periods of parades is prescribed for each cadets. Each period being of 40 min. duration.



3. NCC wing conducts class on Sunday 7 AM to 12 PM, organises social activities, plantation drive, celebrates Republic Day, Independence Day, NCC Day and many technical programs for cadets.
4. In Combined Annual Training camp of days 12 days duration, some selected cadets have to attend camps which are regularly held at different parts of Odisha. The responsibility of obtaining verbal and written permission from parents for attending various camps lies with the individual cadet.
5. Cadets are also selected every year to attend Advance Leadership camp mountaineering Courses, Summer Training camps and different other camps which are held at various places in India.
6. **NCC 'B' and 'C' Certificates**
  - a) Cadets are admitted to the certificate 'B' Examination after (i) completing two years of training in Senior Division N.C.C. having attended a minimum of 75% of the total number of periods prescribed and (ii) having attended at least one Annual Training *Camp* National Integration Camp or its equivalent.
  - b) Cadets who holding 'B' certificate are admitted to the certificate 'C' Examination with the following conditions.
    - (i) Must have completed three years of training in Senior Division. N.C.C. having attended a minimum of 75% attendance in each year, of the total number of periods prescribed and
    - (ii) Must have attended two Annual Training Camps / Centrally organized camps or its equivalents.
7. The N.C.C. establishments are guided by the National Cadet Corps Acts and Rules, 1948 as amended from time to time.
8. Reservation has been made in Indian Army, CRPF, BSF, ITBF, CISF for NCC C-certificate holders in various service sectors 10% of available vacancies for recruitment for grant of permanent commissions in various Technical branches of army are reserved exclusively for NCC cadets.
9. The following incentives are being offered to NCC cadets by the Indian Army for enrolment in Army (Vide DG Letter NO. 5104/INCEN/NCC HQ/P&F Co-ord. Dt. 26.3.2001).
  - (i) NCC, 'B' Certificate – 8% bonus marks are awarded to B' Certificate holders in overall marks scored by him.



- (ii) NCC, 'B' Certificate – 'C' certificate holders are exempted from appearing in common entrance examination (CEE) and placed on the top of merit list if they meet the minimum laid down criteria of age, education qualification, physical and medical standards. They are however, required to pass physical fitness test (PFT).

10. NCC. dues must be cleared in time, otherwise a student may be penalized and / or debarred from appearing exams / Campus interviews.

### **NATIONAL SERVICE SCHEME (NSS)**

The National Service Scheme is aimed at including a sense of national and social responsibility among the students to make them appreciate the dignity of labour for the welfare of rural and weaker sections of the society.

Under N.S.S. they have to participate for 240 hours in regular programmes, service for two years, and attend one special camp of 10 days duration over a period of two years. After successful completion of the programme, the students are awarded a certificate which is given due weightage by various Government and private organizations.

### **STUDENT BODIES AND SOCIETIES**

The following are the important Clubs, Associations and Societies of the students of the University. The Vice-Chancellor, VSSUT, Burla is the President (Ex-officio) for all the student bodies and societies. Nomination to the various clubs, associations and societies are made generally in the month of August/September every year. Secretaries and Asst. Secretaries are selected from 3<sup>rd</sup> year and 2<sup>nd</sup> year students respectively. Chief Editor of Galaxy is nominated from final year students.

### **FUNCTIONS**

#### **CULTURAL ASSOCIATION**

- (a) To organize competitions on cultural events.
- (b) To organise discussion on general, technical, cultural, academic, national and international issues.
- (c) To invite eminent persons for guest lectures.
- (d) To take up such other activities as are approved by the Vice-Chancellor.
- (e) To promote cooperation amongst present and former students.
- (f) To organize Annual Cultural Festival of 'VSSUT'
- (g) To organise Sarawati Puja, Ganesh Puja and other observations.



### **DRAMATIC ASSOCIATION**

#### **FUNCTIONS:**

The function of dramatic association is to present theatrical performances and variety shows etc. which exploit and develop musical and historic talents of the students.

### **MUSIC CLUB**

#### **FUNCTIONS:**

The function of this club is to provide an opportunity to the students of the University to develop their musical talents and other cultural activities.

### **ATHLETIC CLUB**

#### **FUNCTIONS:**

- (a) To promote athletic activity among the students.
- (b) To conduct the sports and athletic tournaments of the University.
- (c) To arrange and supervise participation of the University teams in the various student-teacher friendly matches, inter Hall /inter class competitions, inter University, inter state sports and athletic meets.

The athletic club is well equipped with a Gymnasium and athletic video library with all modern facilities and infrastructures.

### **ART AND PHOTOGRAPHY**

#### **FUNCTIONS:**

- (a) To organize competitions on different categories of art and photography like pencil sketches, colour painting etc.
- (b) To organize art and photography competitions.

### **LITERACY SOCIETY**

#### **FUNCTIONS:**

- (a) To promote literary activity amongst the students
- (b) To prepare and arrange for publication of the University magazine.

### **AUDIO VISUAL CLUB**

#### **FUNCTIONS:**

The Audio Visual Club provides entertainment to students and staff members, by way of screening Hindi/English/Oriya films once or twice a week. The club is equipped with one 35mm projector along with its accessories to screen films. A standby generator is also connected to meet the requirements during power failure. Members are provided with entry passes for easy



identification and to prevent unauthorized entry of outsiders. The club organizes Annual Film Festival once a year.

**FUNCTIONS:**

- (a) Publication of Souvenir “Galaxy” for outgoing B.Tech/M.Tech/M.Sc./MCA students each years.
- (b) To organize Galaxy meet.

**SAMAVESH**

**FUNCTIONS:**

Samavesh is the annual national level Techno-Management/Festival of the University. It has now become the largest technical festival in the state and is headed towards becoming the biggest fest of its kind in the country. Samavesh serves as a platform for interaction between the industry and academic, and it also brings together thousands of engineering and applied science students from all over the country to exhibit their innovations and Novel designs/Proto types/Products/ Robots, and also present technical papers.

**YOGA CENTRE**

**FUNCTIONS:**

Yoga centre organises Yoga classes for the students of first year. Besides internal faculty, Yoga teachers are drawn from different organisations for imparting Yoga training. The students are trained to keep their body and mind fit through yogic postures, asanas, pranayams, transcendental meditation and Rajyoga practice These classes are arranged in the morning and evening. Interested students, other than the first year are also encouraged to attend Training is imparted to remain free from anxiety, tension etc and to Inculcate virtues and human values Also therapeutic application of yoga to different diseases like acidity, hypertension etc. are taught.

**ENGINEERING SOCIETIES**

The Department of Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics and Telecommunication Engineering, Computer Science & Engineering, Information Technology, Production Engineering, Chemical Engineering Metallurgy & Mat. Engg., Computer Application have student Societies in which the teachers and students of the concerned departments are members. These societies are mainly meant -to build up a good academic atmosphere by organizing lectures by outside speakers and also by the members of the societies They also help to promote good relationship between the field experts and industries on one hand and the educational institution on the other. The members also take up modeling work and organize quiz and other competitions. One of the senior teacher of the Department acts as the



Faculty Adviser of the Society. Secretary and Asst. Secretary are selected from final year and pre-final year students respectively.

### **UNIVERSITY CANTEEN**

On campus we provide canteen for our students and visitors. It is located near University auditorium. The canteen offers a wide range of dishes, freshly cooked and prepared, and with attention paid to quality.

### **ALUMNI ASSOCIATION**

All the passout UG/PG/Ph.D. students are members of this association which is registered as a society as per Society Registration Act.1860 (SBP-5909-23/2005-06 dated 31.08.2005) VSSUT alumni are global leaders holding prestigious positions in reputed organization world wide. Many of them have excelled as professionals in various fields.

The aim of the Alumni Association of VSSUT are :

- a) To foster and keep up a sense of fraternity and goodwill among the Ex-students of the University.
- b) To refresh their pleasant memories of the student career and to inculcate a sense of pride for their alma-mater.
- c) To maintain a record of their contributions to the field of engineering profession.
- d) To serve as a link of introduction of the present students of the institution to its old boys / girls.
- e) To hold annual general body meeting and executive body meeting in order to discuss:
  - i) Development of the activities of the Association and
  - ii) Interesting topics relating to the Engineering profession. Vice-Chancellor, VSSUT is the Ex-officio President of the association.
- f) An official website namely "vssutalumni.org" is opened for getting and maintaining the database.
- g) Many alumni sub-centres are operational around the country and abroad such as USA, Delhi, Hyderabad, Bangalore, Mumbai, Bhubaneswar, Rourkela, Angul.
- h) The University has instituted "Distinguished Alumni Award" to give due recognition alumni.

### **ISTE CHAPTER**

- i) The University has obtained Institutional membership (IM-223) from the Indian Society for Technical Education (ISTE). The University has got a chapter of ISTE in which many teachers have enrolled themselves.



## SCHOLARSHIPS AND AWARDS

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

Sl.No.	Name of the Scholarship / Award	Awarding Agency	Value of Scholarship
1.	State Loan Stipend	Director, Higher Education, Odisha, Bhubaneswar	Rs. 12,000/-PM
2.	Post Matric Scholarship for SC/ST Student	District Welfare Officer, Sambalpur	Reimbursement of all non-refundable fees + 1200 p.m.as maint allow
3.	Post Matric Scholarship for OBC/EBC SEBC Student	District Welfare Officer, Sambalpur	Rs.7500 p.a. as maintenance allowance
4.	Disabled Scholarship	Collector, Sambalpur	Rs. 3500/-PM
5.	National Talent Search Scholarship	NCERT, New Delhi	Rs. 30000/-PA
6.	Jindal Trust Scholarship	Jindal Trust, Bangalore	As decided by the trust
7.	Nehru Memorial Scholarship applicable to wards of employees of NALCO	NALCO, Bhubaneswar	As decided by NALCO
8.	NTPC Scholarship to SC/ST students	NTPC, New Delhi	As decided by NTPC
9.	Scholarship to the children of the employees of coalfields	Eastern Coal Fields Ltd.	Amount fixed by Coal fields Ltd.
10.	Minorities Scholarship	Dept. of Minorities	As decided by the Dept.
11.	Scholarship for the children of Postal Dept. employees	Post Master General, Odisha	As decided by the Postal Dept.
12.	Tata Jubilee Scholarship for the children of Tata Iron & Steel Co. Ltd.	Tata Steel Charitable Trust	As decided by the trust
13.	Silver Jubilee Award to Best Graduates	Old Boys Association, Rourkela	Rs. 100/- P.M.
14.	Silver Jubilee Award to Best Graduates	Madnabati charitable Trust, Sambalpur	Rs. 125/- P.M.
15.	Prof. D. Roy memorial award for the best Mechanical Engg. Graduate	Prof. D. Ray	Rs. 500/-
16.	Malay Kumar Das Memorial Gold medal for the best Civil Engg. Graduate of the University	Parents of Late Malay Kumar Das	Gold Medal



17.	Malay Kumar Das Memorial Gold Medal for the Best Engg. Graduate among all the graduating students of the University based on Academic Performance.	Parents of Late Malay Kumar Das	Rs. 1000/- P.M.
18.	Post matric Scholarship to the dependent children of Ex-Servicemen/Widows	Rajya Sainik Board, Bhubaneswar	Rs.24,000/- P.A.
19.	Achyutananda Pujari Gold Medal for best Civil Engg. Graduates	Mr. Nirmal Pujari	Gold Medal
20.	Prof. J. N. Panda memorial Gold Medal for the best Electrical Engg. Graduate of the University & Book Prize to the student securing highest Book Prize marks in Math in 3rd Semester.	Dr. S. Panda, NUS, Singapore	Gold Medal
21.	Meritorious Women Scholarship	Director, Higher Education, Odisha	Rs. 1000/- P.M.
22.	Scholarship for the Children of BSNL employees	BSNL, Bhubaneswar	Disbursed to the student directly
23.	MCL Scholarship	MCL, Burla	Disbursed to the student directly
24.	CISF EDUCATIONAL	CISF, New Delhi	Disbursed to the student directly
25.	NSF Scholarship	NSF Trust	Rs.14000/- P.a.
26.	Merit Scholarship to needy and meritorious students	Vikash Educational / Charitable Trust, Vizag	Rs. 20000/- P.A.
27.	Merit Scholarship to needy and meritorious students	B.D. Patnaik Charitable Trust, Keonjhar	Rs. 20000/- P.A.
28.	National scholarship to disabilities students	NHFDC, Hyderabad	Course fee + Maint. Fees per student
29.	Bank scholarship to the wards of Bank Employee	Awarded by respective Bank	
30.	Tech. scholarship to the wards of postal employee	CPMG, Odisha, Bhubaneswar	
31.	Merit Scholarship to students	Awarded by SAMAJ, Cuttack	Rs. 10000/- P.A.
32.	Merit Scholarship to the wards of BSNL Employees	Awarded by BSNL	Disbursed directly to the student



33.	Merit Scholarship to the wards of Mines employees	Welfare Commissioner Labour Welfare Organization	As decided by the organization
34.	National Merit scholarship	Directorate of Higher Education, Odisha, Bhubaneswar	Rs. 10000/- P.A.
35.	1st year Boy topper & Girls topper	1984 batch Alumini of UCE	Cash award (P.A.)
36.	P.G. GATE scholarship	AICTE, New Delhi	Directly disbursed to the students
37.	Merit Scholarship to M.Sc. students	DST, New Delhi	Disbursement directly
38.	Ph.D. Fellowship (Inspire)	DST, New Delhi	Rs.25000/- P.M.& contingency
39.	Ph.D. Fellowship	TEQIP III	Rs.18000/- P.M.
40.	University Fellowship	University	Rs.16000/- P.M.
41.	Non-GATE Merit Scholarship to M.Tech. students	TEQIP II	Rs.8000/- P.M.
42.	Indian Oil Corp Ltd Scholarship	IOCL	Rs.36000/- P.A.
43.	Single Girl Child Merit Scholarship	UGC	Disbursed directly to student
44.	PG Merit Scholarship	IMA, Bhubaneswar	24000/- P.A.
45.	S-ILF	Sasakana India Leprosy foundation, New Delhi	Course fee with hostel fees
46.	Post Graduate Scholarship for professional courses for SC/ST	UGC	Fellow/Scholarship Rs.7800/- p.m. Contingency Rs. 15000/pm
47.	UGC Fellowship to Ph.D. students	UGC	Disbursed to student directly
48.	Post matric sch. To SC/ST/OBC students of Jharkhand	Govt. of Jharkhand	Disbursed to students directly
49.	Biju Pattnaik Research Fellowship	Deptt of Sc. & Technology, BBSR	12000/- p.m + 25000/- contingency

Tuition fee waiver scheme for women, economically backward and physically handicapped meritorious students (upto 5% of sanction strength in each discipline) as per AICTE guide lines. (through OJEE)



## UNIVERSITY FEES & OTHER DUES

Sl. No.	Programme	Category	NTFW/TFW	Fees payable at the time of admission (per annum)	Fees payable in 3 <sup>rd</sup> /5 <sup>th</sup> /7 <sup>th</sup> Sem.B.Tech/ B.Tech (LE), 3 <sup>rd</sup> /5 <sup>th</sup> Sem. MCA, 3 <sup>rd</sup> Sem.M.Tech/ M.Sc. & Odd Sem.Ph.D	Fees payable in	
						4 <sup>th</sup> /6 <sup>th</sup> Sem.B.Tech/ 4 <sup>th</sup> Sem.MCA/ & Even Sem. Ph.D	<b>Final Semester</b> 8 <sup>th</sup> Sem. B.Tech, 6 <sup>th</sup> Sem MCA, 4 <sup>th</sup> Sem. M.Tech/ M.Sc & Final Sem. Ph.D
1	B.Tech	RB	NTFW	45640	20550	13700	15700
			TFW	33640	14550	7700	9700
		SFB	NTFW	89740	44550	34300	36300
			TFW	44740	22050	11800	13800
		RDS	NTFW	41040	17750	11900	13900
			TFW	29040	11750	5900	7900
SFDS	NTFW	85140	41750	32500	34500		
	TFW	40140	19250	10000	12000		
2	B.Tech (LE)	RB	NTFW	45610	20550	13700	15700
			TFW	33610	14550	7700	9700
		SFB	NTFW	89710	44550	34300	36300
			TFW	44710	22050	11800	13800
		RDS	NTFW	41010	17750	11900	13900
			TFW	29010	11750	5900	7900
SFDS	NTFW	85110	41750	32500	34500		
	TFW	40110	19250	10000	12000		
3	B.Arch	RB	NTFW	45640	20550	13700	15700
		RDS	NTFW	41040	17750	11900	13900
4	MCA	SFB	NTFW	74710	37050	26800	28800
		SFDS	NTFW	70110	34250	25000	27000
	MCA(LE)	SFB	NTFW	74675	37050	-	28800
		SFDS	NTFW	70075	34250	-	27000
5	2-yr M.Tech/ M.Sc	RB	NTFW	45570	20550	-	15700
		RDS	NTFW	40970	17750	-	13900
6	5-yr. Int.M.Sc./ 5-yr.M.Tech Dual Degree	RB	NTFW	45570	20550	13700	15700
		RDS	NTFW	40970	17750	11900	13900
7	1-yr M.Phil	RB	NTFW	40435	-	-	-
		RDS	NTFW	35835	-	-	-
8	Ph.D	RB	NTFW	33740	16050	11300	23300
		RDS	NTFW	29140	13250	9500	21500
		Internal	NTFW	12000	6000	6000	20000

**RB – Regular Boarder; SFB – Self-Financing Boarder, RDS – Regular Day Scholar; SFDS – Self-Financing Day Scholar; TFW-Tuition fees waiver, NTFW-Non Tuition fees waiver, Internal- VSSUT Faculty members**



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA  
LIST OF HOLIDAYS FOR THE YEAR -2020 (VACATIONAL)

Month	Date	Day	Occasion	No. of Days
January	01.01.2020	Wednesday	New Year's Day	01
	10.01.2020	Friday	Pousa Purnima	01
	15.01.2020	Wednesday	Makara Sankranti	01
	23.01.2020	Thursday	Subash Bose Jayanti/ Veer Surendra Sai Jayanti	01
	30.01.2020	Thursday	Basanta Panchami	01
February	21.02.2020	Friday	Maha Shivaratri	01
March	05.03.2020	Thursday	Panchayati Raj Divas	01
	09.03.2020	Monday	Dolapurnima	01
	10.03.2020	Tuesday	Holi	01
April	01.04.2020	Wednesday	Utkal Divas	01
	02.04.2020	Thursday	Shree Ram Navami	01
	10.04.2020	Friday	Good Friday	01
	13.04.2020	Monday	Mahabishnuva Sankranti	01
	14.04.2020	Tuesday	Ambedkar Jayanti	01
May & June	25.05.2020 to 30.06.2020	Monday to Tuesday	SUMMER VACATION (Excluding Five Sundays)	32
July	01.07.2020	Wednesday	University Foundation Day (Observation Day)	-
August	01.08.2020	Saturday	Id-UI-Zuha	01
	03.08.2020	Monday	Jhulana Purnima	01
	11.08.2020	Tuesday	Janmastami	01
	15.08.2020	Saturday	Independence Day	01
	22.08.2020	Saturday	Ganesh Puja	01
	24.08.2020	Monday	Day Following Nuakhai	01
September	16.09.2020	Wednesday	Viswakarma Puja	01
	17.09.2020	Thursday	Mahalaya	01
October	02.10.2020	Friday	Gandhi Jayanti	01
	21.10.2020 to 31.10.2020	Wednesday to Saturday	PUJA HOLIDAYS (Excluding One Sunday)	10
November	14.11.2020	Saturday	Diwali / Kali Puja	01
	30.11.2020	Monday	Rahasa Purnima	01
December	08.12.2020	Tuesday	Prathamastami	01
	25.12.2020	Friday	X-Mass Day	01
<b>Total</b>				<b>69 Days</b>

NOTE: Republic Day, Nuakhai, Moharrum falls on Sundays. In addition to above, Hon'ble Vice-Chancellor may, at his discretion, grant 01(One) day as holiday for other special occasions during the year.

**Total: 69 Holidays + 52 Sundays + 01(Discretion) = 122 days**

By order of Hon'ble Vice-Chancellor

Dean, Academic Affairs

Dated: 07.12.19

Memo No. VSSUT/ACD/1209 (45)

Copy to:

University Notice Board / Notice Board of all Halls of Residence / Wardens of All Halls of Residence / All Deans / All HODs / All PICs / Workshop Superintendent / COE / Registrar / COF / All Section Officers / Maint. Engineer / PTO / Dean, F&P with a request to facilitate for display of this notice in the university website / PA to Vice-Chancellor for kind information of Hon'ble Vice-Chancellor.

Dean, Academic Affairs



**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA  
LIST OF HOLIDAYS FOR THE YEAR -2020 (NON-VACATIONAL)**

Month	Date	Day	Occasion	No. of Days
January	01.01.2020	Wednesday	New Year's Day	01
	10.01.2020	Friday	Pousa Purnima	01
	15.01.2020	Wednesday	Makara Sankranti	01
	23.01.2020	Thursday	Subash Bose Jayanti/ Veer Surendra Sai Jayanti	01
	30.01.2020	Thursday	Basanta Panchami	01
February	21.02.2020	Friday	Maha Shivaratri	01
March	05.03.2020	Thursday	Panchayati Raj Divas	01
	09.03.2020	Monday	Dolapurnima	01
	10.03.2020	Tuesday	Holi	01
April	01.04.2020	Wednesday	Utkal Divas	01
	10.04.2020	Friday	Good Friday	01
	13.04.2020	Monday	Mahabishnuva Sankranti	01
	14.04.2020	Tuesday	Ambedkar Jayanti	01
May	25.05.2020	Monday	Id-UI-Fiter	01
	28.05.2020	Thursday	Sitala Sasthi	01
June	15.06.2020	Monday	Raja Sankranti	01
	23.06.2020	Tuesday	Sri Gundicha	01
July	01.07.2020	Wednesday	University Foundation Day (Observation Day)	-
August	01.08.2020	Saturday	Id-UI-Zuha	01
	11.08.2020	Tuesday	Janmastami	01
	15.08.2020	Saturday	Independence Day	01
	22.08.2020	Saturday	Ganesh Puja	01
	24.08.2020	Monday	Day Following Nuakhai	01
September	16.09.2020	Wednesday	Viswakarma Puja	01
	17.09.2020	Thursday	Mahalaya	01
October	02.10.2020	Friday	Gandhi Jayanti	01
	22.10.2020 to 26.10.2020	Thursday to Monday	<b>PUJA HOLIDAYS (Excluding One Sunday)</b>	04
	31.10.2020	Saturday	Kumar Purnima	01
November	14.11.2020	Saturday	Diwali / Kali Puja	01
	30.11.2020	Monday	Rahasa Purnima	01
December	25.12.2020	Friday	X-Mass Day	01
<b>Total</b>				<b>33 Days</b>

NOTE: Republic Day, Pahili Raja, Nuakhai, Moharrum falls on Sundays. In addition to above, Hon'ble Vice- Chancellor may, at his discretion, grant 01(One) day as holiday for other special occasions during the year.

**Total: 33 Holidays + 52 Sundays + 01(Discretion) = 86 days**

By order of Hon'ble Vice-Chancellor

Dean, Academic Affairs

Dated: 07.12.2019

Memo No.VSSUT/ACD/ 1210(45)

Copy to:

University Notice Board/ Notice Board of all Halls of Residence / Wardens of All Halls of Residence / All Deans / All HODs / All PICs / Workshop Superintendent / COE / Registrar / COF / All Section Officers / Maint. Engineer / PTO / Dean, F&P with a request to facilitate for display of this notice in the university website / PA to Vice-Chancellor for kind information of Hon'ble Vice-Chancellor.

Dean, Academic Affairs



**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA**  
**ACADEMIC & ACTIVITY CALENDAR OF ODD SEMESTER OF July' 2019 to Dec'-2019**  
**PART - A**

Sl. No.	Details of Academic Events	1 <sup>st</sup> Semester B.Tech / B.Arch. / B.Tech. & M.Tech. Dual Degree/ M.Tech./ MCA/M.Phil/ M.Sc./Ph.D./Integrated M.Sc. (Tentative, Subjected to admission of student)	3 <sup>rd</sup> , 5 <sup>th</sup> & 7 <sup>th</sup> Sem. B.Tech/ 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> & 9 <sup>th</sup> B.Arch. / 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> & 9 <sup>th</sup> B.Tech. & M.Tech. Dual Degree/ 3 <sup>rd</sup> & 5 <sup>th</sup> Sem. MCA/ Ph.D/ 3 <sup>rd</sup> M.Tech. & M.Sc., and 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> & 9 <sup>th</sup> Integ. M.Sc. & 6 <sup>th</sup> Sem. Executive B.Tech. Programme
1	(A) Registration of Regular students (without fine) to Odd Semesters. Registration of students shall be done in respective department. (B) Re-admission of eligible backlog students to Odd Semester (without fine). Re-admission of students shall be done in Academic Section.		11/07/2019 & 12/07/2019  08/08/19 & 09/08/2019
2	Commencement of Odd Semester classes	After Admission	11/07/2019
3	(A) Registration of Regular students(with fine) to Odd Semesters. Registration of students shall be done in respective department. (B) Re-admission of eligible backlog students to Odd Semester (with fine). Re-admission of students shall be done in Academic Section.		29/07/2019 & 30/07/2019  13/08/2019 & 14/08/2019
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.)		01/10/2019
5	Mid-Semester Examination		27/09/2019 to 04/10/2019
6	Repeat Mid Semester Examinations		21/10/2019 to 25/10/2019
7	Athletic Meet		02.11.2019 & 03.11.2019
8	Last date of showing evaluated Mid semester/Repeat Mid Semester answer scripts to the students by the concerned subject teacher		06/11/2019
9	Last date of completion of sessional/Lab/Project & Viva Examination and theory classes	29/11/2019	23/11/2019
10	Last date of submission of consolidated attendance shortage report to the office Dean, Academic Affairs by HODs in proper format.	30/11/2019	25/11/2019
11	Last date of Report to COE by HODs after Departmental meeting on Lab/Sessional/Viva/Seminar/Project etc. failure cases.	03/12/2019	27/11/2019
12	Date of Notification of debarring students from appearing End Semester Examination for Attendance Shortage by the office of Dean, Academic Affairs	04/12/2019	30/11/2019
13	End Semester Examination (Theory Papers)	06/12/2019 to 18/12/2019	05/12/2019 to 17/12/2019
14	Last Date of evaluation of End Semester Answer Book		31/12/2019
15	Last Date of showing evaluated End Semester Answer Book to students		03/01/2020
16	Last date of Submission of Answer Book (Mid-Semester & End Semester) in the office of COE and on line submission of marks.(Submission of COs)		06/01/2020
17	Last date of Publication of Odd Semester results		30/01/2020

**PART - B**

Sl. No.	Details of Academic Events	All Even Semesters of B.Tech/B.Arch./ B.Tech. & M.Tech. Dual Degree/ MCA/M.Sc/M.Tech/ M.Phil/ Integrated M.Sc. & Ph.D (Tentative), 7 <sup>th</sup> Sem. Executive B.Tech.Programme
1	Date of Subject Registration for Even Semesters 2020	02/01/2020 & 03/01/2020
2	Date of commencement of Even Semesters classes 2020	02/01/2020

(50)  
 Memo No. VSSUT/ACD/ 692 /2019

Copy to: University Notice Board /Notice Board of all Halls of Residences /All Deans/ All HODs / All PICs /Director, IQAC/ Registrar/ COE/COP/ /Wardens of All Halls of Residence/ Prof. I/c, Examination/Chairman, Time Table/ Collection Asst./P.A. to V.C./Dean, F&P with a request to facilitate in displaying this notice in the University website.

Dean, Academic Affairs  
 Dated: 12/06/2019

Dean, Academic Affairs  
 12/6/2019



**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA  
ACADEMIC & ACTIVITY CALENDAR OF EVEN SEMESTER OF Jan'2020 to June'2020**

No.VSSUT/ACD/ 1220/2019

Dated: 12/12/2019

**PART - A**

Sl. No	Details of Academic & Activity Events	Even Semester for all UG and PG Programme and 7 <sup>th</sup> Semester Executive B.Tech
1	Registration of Regular students and Re-admission of eligible backlog students to Even Semester <b>without fine</b> . (Registration of students shall be done in respective department. But Re-admission of students shall be done in Academic Section).	02.01.2020 & 03.01.2020
2	Commencement of Even Semester classes	02.01.2020
3	Registration of Regular students and Re-admission of eligible backlog students to Even Semester <b>with fines</b> . (Registration of students shall be done in respective department. But Re-admission of students shall be done in Academic Section).	17.01.2020 & 18.01.2020
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)	20.02.2020
5	Mid-Semester Examination	25.02.2020 to 29.02.2020
6	Student Function (Samavesh , IUSM , Cultural Function)	02.03.2020 to 07.03.2020
7	Repeat Mid-Semester Examinations	17.03.2020 to 21.03.2020
8	Last date of showing evaluated mid semester answer scripts to the students by the concerned subject teacher	31.03.2020
9	Registration of students for Even Semester backlog paper to appear End Semester Examination	25.03.2020 to 11.04.2020
10	Completion of sessional/Lab/Project /Seminar & Viva Examinations etc.	06.04.2020 to 20.04.2020
11	Registration of only final year students for Odd Semester backlog papers to appear Supplementary Examinations	15.04.2020 to 22.04.2020
12	Last date of theory classes	20.04.2020
13	Last date of submission of consolidated attendance shortage report of theory / Laboratory / Design / Drawing / Seminar & Project Work the office of the Dean, Academic Affairs by HODs in proper format.	21.04.2020
14	Last date of Report to COE by HODs after departmental meeting on Lab/Sessional/Viva/Seminar/ Project etc. failure cases	23.04.2020
15	Date of Notification of debarring students from appearing examination for Attendance Shortage by Dean, Academic Affairs	25.04.2020
16	End Semester Examination (Theory Papers)	29.04.2020 to 22.05.2020
17	Submission of Final Thesis and completion of dissertation / thesis evaluation/ open defense of 4 <sup>th</sup> Semester M.Tech. & 2 <sup>nd</sup> Semester M.Phil.	20.05.2020 to 12.06.2020
18	Last Date of showing evaluated Answer Book to students & Submission of Answer Scripts and marks of Mid-Semester, End Semester Theory/Sessional and Practical Exam. to Controller of Examinations	30.05.2020
19	Publication of Even Semester Results	26.06.2020
20	Registration of only final year students for Even Semester backlog papers to appear Supplementary Examinations.	27.06.2020 to 03.07.2020
21	Commencement of Supplementary Examination only for final year students	10.07.2020
22	Last Date of showing evaluated Answer Book of Supp.Exam.to students & submission of supplementary marks	28.07.2020
23	Publication of Supplementary Results	10.08.2020

**PART - B**

Sl. No	Details of Academic Events	Odd Semester for all UG and PG Programme and 8 <sup>th</sup> Semester Executive B.Tech
1	Date of Subject Registration for Odd Semesters 2020	27.07.2020 & 28.07.2020
2	Date of commencement of Odd Semesters classes 2020	27.07.2020
3	Date of commencement of 1 <sup>st</sup> Semester B.Tech, B.Arch, MCA & 5yrs Int. M.Sc. classes 2020	Subject to date of admission

By order of Hon'ble Vice-Chancellor

Memo No.VSSUT/ACD/1221<sup>(65)</sup>/2019

Copy to : 1. University Notice Board /All Deans/ Registrar, VSSUT, Burla/Wardens of All Halls of Residence/ All HODs/COE/COF/Prof. I/C, Examination/Chairman, Time Table/ Prof. I/C, Central Library/Accounts Section/ Collection Asst./ /Dean, F&P with a request to facilitate in displaying this notice in the University website.  
2. P.A. to V.C for kind information of Hon'ble Vice-Chancellor.

Dean, Academic Affairs  
Dated: 12/12/2019

Dean, Academic Affairs  
12/12/2019



## TELEPHONES

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27	Mr. Ajaya Kumar Das	ajaycet.08@gmail.com	9776039628
28	Ms Kajal Swain	kajalswain23@gmail.com	9437907747
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31	Ms. Abhaya Nayak	abhayaa.nayak91@gmail.com	8763239659
2. Non Teaching staffs			
1	Mr. K. C. Pradhan	NA	9437166329
2	Mr. A. K. Satpathy	NA	9438640516
3	Mr. N. K. Mishra	NA	9861039221
4	Mr. K. P. Khandit	NA	7978659434
5	Mr. G. Suna	NA	7809372602
6	Mr. B. K. Ojha	NA	9583441610
7	Mr. A. C. Pal	NA	9861323688
8	Mr. K. C. Gouda	NA	9439753547
9	Mr. K. Raul	NA	9861259543
10	Mr. N. M. Suna	NA	7894765251
11	Mr. B. Sahu	NA	9124925065
12	Mr. S. Sendria	NA	8658973360
13	Mr. C. Suna	NA	9178002375



<b>DEPARTMENT OF MECHANICAL ENGINEERING</b>			
<b>1. Teaching staffs</b>			
<b>Sl No.</b>	<b>Name of the staff</b>	<b>Email Id</b>	<b>Contact No.</b>
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18	Mr. P. K. Jena	prabirkumarjena07@gmail.com	98 61 444169
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23	Mr. J. B. Lakra	send4johnson@gmail.com	94 45 965066
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27	Mr. S. S. Dalai	kunubbs@gmail.com	94 39 319661
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30	Dr. K. K. Ekka	kiran2803@gmail.com	83 28 960527
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6	Mr. Akshya Kumar Meher	akmeher.vssut@gmail.com	9040212115
7	Mr. Pramod Kumar Bhoi	pramodkumarbhoi64@gmail.com	7873171780
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13	Mr. Maheswar Haripal	NA	7327993395



<b>DEPARTMENT OF ELECTRICAL ENGINEERING &amp; EEE</b>			
<b>1. Teaching staffs</b>			
<b>Sl No.</b>	<b>Name of the staff</b>	<b>Email Id</b>	<b>Contact No.</b>
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15	Mrs. Mamun Mishra	mamun_mishra@yahoo.co.in	9437119504
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17	Mrs. Sarmila Garnaik	sarmilagar naik12@gmail.com	9937367087
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19	Dr. Sasmita Behera	sasmitabehera2000m@gmail.com	9437367106
20	Mr. Bibhuti Prasad Sahoo	bibhutivssut@gmail.com	8763613951
21	Dr. Raseswari Pradhan	rase1512@gmail.com	9937902775
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29	Ms. Sagarika Rout	routsagarika90@gmail.com	9438394231
30	Mr. Amit Mallick	ommjoobymail@gmail.com	9777509023
31	Mr. Pratyusha Pratik	pratyushpratik@gmail.com	8658060727
32	Mr. Jatin Kumar Pradhan	jatinpradhan@gmail.com	7894588688
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5	Sri. Parsu Haripal	NA	9777074736
6	Sri Upendra Padhan	NA	9861789969
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<b>DEPARTMENT OF ELECTRONICS &amp; TELECOMM. ENGINEERING</b>			
<b>1. Teaching staffs</b>			
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7	Dr. Sanjay Agrawal	agrawals.72@gmail.com,	9861032190
8	Dr. Harish Kumar Sahoo	harish_sahoo@yahoo.co.in	9437086263
9	Dr. Arunanshu Mahapatro	arun227@gmail.com	9437438294
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### **IMPORTANT INSTRUCTION**

Health care is the personal responsibility of every student. In case of health problem which needs long/emergency treatment/hospitalization/surgical operations etc., the concerned student must immediately consult his/her parents, guardians, local guardians, University Doctor and take prior written permission from the Warden and Dean, Students' Welfare.