



INFORMATION BROCHURE

2024-25



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



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Printed and published under the authority of

Prof. Bibhuti Bhusan Pati

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

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Vice Chancellor	: Prof. Bibhuti Bhusan Pati
Registrar	: Shri Pradeep Dang, OAS(S)
Comptroller of Finance	: Sri Tularam Kalet, OFS-1 (SB)

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- 9 Prof. Debadutta Mishra , Professor in Prod. Engg.,VSSUT, Burla
- 10 Prof. Sidharth Panda, Professor of Electrical Engg. VSSUT, Burla
- 11 Prof. Sanjay Kumar Patro, Professor of Civil Engg. VSSUT, Burla
- 12 Prof. S Karmalkar, Director, IIT, Bhubaneswar
- 13 Er. Ashesh Padhy, VP & Head-Project, JSW Paradip Steel Project.
- 14 Prof. Sukumar Mishra, Professor in Electrical Engg., IIT, Delhi
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Mechanical Engineering	:	Dr. Sumanta Panda



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Production Engineering	:	Dr. Arun Kumar Rout

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HALL OF RESIDENCE ADMINISTRATION

Dean, Students Welfare	Prof. Sudhanshu Sekhar Das	9439207001
<u>Marichi Hall of Residence</u>		
Warden	Dr. Bidyadhar Rout	9439207016
Asst. Warden	Dr. Deepak Kumar Lal	9439207017
<u>Atri Hall of Residence</u>		
Warden	Dr. Prakash Chandra Mishra	9439207010
Asst. Warden	Dr. Mohapatra Prakash K. Sahoo	9439207011
<u>Kratu Hall of Residence</u>		
Warden	Dr. Sushanta Kumar Badjena	9439207012
Asst. Warden	Er. Suresh Kumar Srichandan	9439207013



Arundhati Hall of Residence

Warden	Dr. Soumya Saswati Sarangi	9439207018
Asst. Warden	Er. Ananda Kumar Behera	9439207019

Anuradha Hall of Residence

Warden	Dr. Renu Prava Dalai	9439207021
Asst. Warden	Dr. Jatin Kumar Pradhan	9439207022

Vasistha Hall of Residence

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

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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

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Asst. Warden	Er. Amit Mallick	9439214438

Pulaha Hall of Residence

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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 [#]	1956	90+30*	02	06	9+3*	140
2.	Chemical Engineering	2014	60	-	03	6	69
3.	Computer Science & Engineering [#]	1994	30+30*	01	03	3+3*	70
4.	Electrical Engineering [#]	1956	120	02	06	12	140



5.	Electrical & Electronics Engineering	2010	30+30*	-	03	3+3*	69
6.	Electronics & Telecomm. Engg. [#]	1972	120	02	06	12	140
7.	Information Technology [#]	2003	60*	-	03	6*	69
8.	Mechanical Engineering [#]	1956	120	03	06	12	141
9.	Metallurgy & Materials Engineering	2013	60	-	03	6	69
10.	Production Engineering [#]	1996	30+30*	-	03	3+3*	69
TOTAL			840	10	42	84	976

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

Sl.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)

Sl.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
TOTAL				36

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

Sl.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

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

Sl.No	Name of the Course	Specialisation	Year of Starting	Sanctioned Intake
1.	M.Sc. (Physics)	Applied Physics	2010	18
2.	M.Sc. (Chemistry)	Industrial Chemistry/ 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	
7.	Prof. Banshidhar Majhi			
8.	Prof. Bibhuti Bhusan Pati			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) : 8.00 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.

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 1st day of July 2009 (vide Industries Deptt. Memo No. IV-TTI-33/2009-8553 and 8564 dtd 10.6.2009). This State Government University is recognized by University Grants Commission (UGC), New 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 23rd January 1809 and sacrificed his life fighting against the British rule and died in Asiragarh jail on 28th 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 12th August 1956 at Burla in the name of University College of Engineering (UCE), the first engineering college of the state was functioned as a 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 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 specializations 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 specializations and from 2015 dual degree program in Structural Engineering have been initiated.

The Department of Civil Engineering has been in existence since 1956 with the inception of VSSUT, BURLA and is producing high quality technical manpower needed by industry, R&D organizations, and academic institutions. The departmental activities embrace Planning, Design, Construction and Management. The syllabi of the department have been tremendously augmented with many advanced courses. The Department offers B.Tech degree in Civil Engineering and M.Tech. degree in Civil Engineering with five specializations, i.e., Structural Engineering, Geotechnical Engineering, Transportation Engineering, Water Resources Engineering., and Environmental Engineering. Besides this, the department also offers Ph. D degree. The B.Tech programme of this Department has been accredited under Tier-I program by National Board of Accreditation (NBA-Washington Accord) in 2016 for six years (2016-2022), which is a rare distinction. With this accreditation, the Department of Civil Engineering of VSSUT Burla has become an elite member in the club of only twenty reputed Institutions across the country which includes National Institutes of Technology (NITs). Presently the department has



student strength of about 830 out of which about 200 students are perusing their Masters and PhD degrees. The faculty members of the department are well qualified having their highest degrees from reputed international and national institute like IITs and NITs. Moreover, thirteen out of existing 24 faculty members are with PhD qualification.

2. Scope of Civil Engineering:

Civil engineering is one of the oldest branches of engineering and is very relevant even today. Civil engineers are professionals who create structures, plan cities, create transportation facilities, and healthcare facilities to ensure a decent standard of living in various regions. Most brick-and-mortar structures you see around you have been transformed into a reality by a civil engineer.

Civil engineers are professionals who plan, design, construct, maintain, upgrade, and operate infrastructure like roads, buildings, railways, dams, bridges, etc. These professionals are also responsible for maintaining public health and safety by executing proper waste management and sewer management systems.

Geotechnical engineers are concerned regarding the engineering performance of earth materials like rocks, soil, sediment, etc. They have to examine and analyse these earth materials to find out the earthen properties of a certain area. This helps them determine whether a particular area is safe for construction or poses a health and safety issue for humans. Water resource management is also a part of geotechnical engineering.

Structural engineers are professionals who study, plan, design, and conduct necessary research regarding different structural components and systems. This helps them make sure that the structure they are constructing is safe and comfortable for human use. These professionals have to constantly keep themselves updated regarding the latest construction materials to ensure better standard of construction of a structure.

Urban planners are professionals hired by government authorities and the public works departments to plan different towns, cities, and relevant facilities in such areas. A transportation planner is someone who plans and creates strategies for transportation networks within a city, a town, or across a country. Transportation planners have to analyse the transportation needs of people in a certain locality and ensure that they are able to fulfil such needs. They work to develop roadways, bridges, sea links, airports, sea ports and much more to ensure that people are able to travel in a hassle-free and safe manner.



3. Vision & Mission:

Vision

To emerge as an internationally acclaimed Civil Engineering Department for imparting futuristic technical education and creation of vibrant research enterprise to create quality civil engineering and researchers, truly world class leaders and unleash technological innovations to serve the global society and improve the quality of life.

Mission

The Department of Civil Engineering, VSSUT, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research throughout

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

4. Courses offered:

The department of Civil Engineering offers:

- 8 Semesters Undergraduate course leading to the B.Tech. degree in Civil Engineering.
- 4 semesters Post Graduate (Regular) course leading to M.Tech. (Civil Engineering) with specialization:
 - Structural Engineering,
 - Water Resources Engineering
 - Geotechnical Engineering
 - Transportation Engineering.
 -

**5. Placement Records:**

- ☐ Placements Statistic 2019-20 - 44
- ☐ Placements Statistic 2020-21 - 31
- ☐ Placements Statistic 2021-22 - 52
- ☐ Placements Statistic 2022-23 - 65

6. Laboratory Details:

Sl. No.	LAB Name	Regular Facilities	Utilization
1	Hydraulics Flow Lab	Point Gauge (30cm, 50cm, 100cm) Electrical Point gauge (1m) Vernier type specification	To measure flow depth
2		Piezometers	To measure pressure head
3		Stopwatch	To record time during experiment
4		Differential U- tube Manometer	To measure differential pressure
5		Venturi meter	To measure discharge in pipes
6		Orifice meter	
7		Rotameter	
8		Triangular and Rectangular notches	To measure discharge in open channels
9		Bernoulli's apparatus	To verify Bernoulli's Theorem
10		Pipe friction apparatus	To measure friction factor
11		Bend meter	To measure minor bend loss
12		Metacentric height apparatus	To do stability analysis of floating body
13		Reynold's Apparatus	To visualize laminar, transition and turbulent pipe flow
14		Density bottle of 100 ml capacity	To determine specific gravity of soil particles
15		Pycnometer	To determine specific gravity and water content both
16		Hydrometer	To determine grain size distribution of fine grained soil
17		Hydrometer Glass Jar	To suspend soil hydrometer in sodium hexametaphosphate solution for determining amount of soil particles in a dispersed suspension
18		Liquid Limit Device	To determine the moisture content at which clay soil pass from a plastic to a liquid state
19		Field Density Determination by Sand Replacement Method	To determine in situ dry density of soil



20		Field Density Determination by Core Cutter Method	To determine in situ dry density of soil, specifically in fine grained cohesive soils without stones
21		Standard Proctor Test	To determine the point at which soils can most efficiently be compacted using construction equipment, based on their optimal moisture content and maximum dry density
22		Shrinkage Limit Device	To determine shrinkage limit and to calculate other shrinkage factors like shrinkage ratio, shrinkage index and volumetric shrinkage
23		Plastic Limit Apparatus	To determine plastic limit of soil
24		Moisture Cans	To determine moisture content
25		Electronics Balance with battery backup	To measure the weight
26		Unconfined Compression Testing Apparatus	To measure shear strength of clayey soil
27		Standard IS Sieves	To determine particle size
28		Enamel Tray (15inch x 15inch)	Used for sorting, arranging, and preparing materials
29		Water Bath	Heating laboratory reagent
30		Flexural Testing Machine	To measure flexural strength
31		Digital Compression Testing Machine	To measure compressive strength
32		Sieve Shaker	To determine particle size
33		Briquette Tensile Testing Machine	To measure tensile strength
34		Compacting Factor Apparatus	To determine workability
35		Table Vibrator-I &II	Used for compaction
36	Concrete Lab	Hot Air Oven	To provide high temperature
37		Compression Testing Machine	To measure compressive strength
38		V-Funnel	To determine workability
39		L-Box	To determine workability
40		Micro meter outside	To measure the thickness of small parts
41		Digital strain indicator	Direct measurement of strain
42		Begg's deformation	To determine reactions of statically indeterminate structure
43		UTM (100-ton capacity)	Materials test frame
44	Structural Engg. Lab	Control panel with PC interface of UTM	To visualize stress strain diagram
45		Arch Models (2, 3 hinged)	To measure thrust and radial shear
46		Dial Gauge	Measures small displacement of a spindle
47		Optical microscope	To magnify images of small sample
48		Uni directional vibration shaker	To give compaction



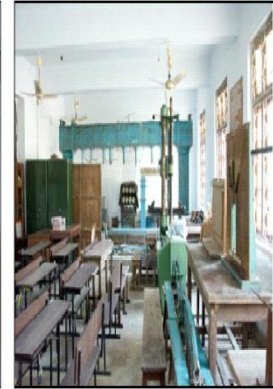
49		Manual Hydraulic shaker	Promotes particle movement through a stack of sieves which facilitates accurate particle separation
50	Survey Lab	Dumpy levels	Levelling instrument to locate the points in same horizontal plane
51		Theodolites	Used to measure horizontal and vertical angles
52		Sketch Master	A photogrammetric plotter through which the operator views the aerial survey photograph and the map simultaneously, manually tracing detail from the photograph onto the map
53		Sub-Tense Bar	To measure horizontal and vertical distance in places where chaining is impossible
54		Automatic Level	Professional levelling tool that is often used by land surveyors, builders, contractors, and engineers to provide consistent level accuracy
55		Film Strip cum slide projector	To view photographic slides by using optical and mechanical methods
56		Rotring NC Scriber	Electronically controlled drafting aid
57		Auto Level	To measure height differences and to transfer, measure and set heights
58		Benchtop meter	Electronic instrument used to measure the acidity and alkalinity of liquid or semi-solid samples
59		Electronic Balance	To measure the weight
60		Flame photometer and Turbidity meter	Flame photometer is used to determine the concentration of certain metal ions.
	Environmental Engg. Lab		Turbidity meter is used to measure how much light is either absorbed or scattered by suspended matter in water
61		Hot Air Oven	Use extremely high temperatures over several hours to destroy microorganisms and bacterial spores.
62		Mechanical Shaker	Automatic sieve shaker
63		Conductivity Meter	To quantify the number of anions and cations present in a water sample and/or estimate the quantity of total dissolved solids present in a sample.
64		DO meter	To quantify the amount of dissolved oxygen (DO) in surface waters or at different stages of wastewater treatment.



65		BOD incubator Shaker	Used for incubation of biochemical reactions while conducting organic chemical studies of wastewater.
66		COD setup	Measures how much dissolved oxygen (DO) is consumed by the oxidation of organic matter and inorganic compounds such as ammonia or nitrite under controlled conditions
67		Distillation Set	To heat the mixture and volatize the components of a liquid mixture
68		pH meter	To measure acidity/alkalinity
69		Jar Test apparatus	For water treatment and testing
70		Sound Level Meter	Converts the sound signal to an equivalent electrical signal
71		Conductivity meter	To measure the conductivity
72		Flame photometer	To determine the concentration of certain metal ions



Concrete Lab



Structural Engg. Lab



Geotechnical Engg. Lab



Water Resources Engg. Lab



Water Resources Engg. Lab



Surveying Lab



Environmental Engg.



7. Faculty Details:

	Name	Qualification	Specialization
<u>PROFESSORS</u>			
1	Prof. Sudhanshu Sekhar Das	B.Sc Engg., (OUAT), M.T.R.P. (Indian Institute of Engineering Science and Technology Shibpur, Ph.D (IIT Kharagpur)	Transportation Engineering
2	Prof. Sanjaya Kumar Patro	PhD (IIT Bombay)	Structural Engineering
3	Prof. Rakesh Roshan Dash	B.E. (Utkal Univ.) M. Tech. (IIT Delhi), Ph.D. (IIT Roorkee),	Environmental Engineering
4	Pror. Ramakanta Panigrahi	B.Sc. (Engg.) (UCE Burla), M Tech (IIT Delhi), PhD (IIT Delhi)	Structural Engineering
5	Prof. Anil Kumar Kar	B.Sc. (Engg) (S.U), M.Tech (IIT Roorkee), Ph.D (IIT Roorkee)	Water Resources Engineering
<u>ASSOCIATE PROFESSORS</u>			
1	Dr. Debabrata Giri	B.Tech (CET, BBSR), M.Tech (NIT, RKL), Ph.D (IIT, KGP)	Geotechnical Engineering
2	Dr. Saubhagya Kumar Panigrahi	B. Tech. (Utkal University), M. Tech. (NIT Rourkela), Ph.D. (IIT Kharagpur)	Structural Engineering
<u>ASSISTANT PROFESSORS</u>			
1	Ms. Sudhira Rath	M.Sc(Engg) NITRKL, M.E (T.E) S.U	Transportation Engineering
2	Ms. Jayanti Munda	B.Tech (UCE, Burla), M.Tech (NIT Warangal)	Geotechnical Engineering
3	Dr. Leena Sinha	B.Tech (UCE Burla), M.Tech(NIT Rourkela) Ph.D (VSSUT BURLA)	Structural Engineering



4	Dr. Parsuram Nayak	B-Tech (UCE Burla), M. Tech (NIT Rourkela) Ph.D (IIT Kharagpur)	Structural Engineering
5	Mr. Rajiv Lochan Sahu	B. Tech. (VIT University,Vellore), M. Tech (NIT Rourkela) Ph.D(VSSUT BURLA)	Geotechnical Engineering
6	Dr. Janhabhi Meher	B.Tech (UCE BURLA), M.Tech (IIT Kanpur), Ph.D (NIT Rourkela)	Water Resources Engineering
7	Dr. Laxmipriya Mohanty	M. Tech (NIT Rourkela) Ph. D	Water Resources Engineering
8	Ms. Rupashree Ragini Sahoo	M. Tech, NIT Rourkela	Geotechnical Engineering
9	Mr. Akash Kumar Naik	B.Tech (VSSUT, Burla) M. Tech (IIT, Kharagpur)	Transportation Engineering
10	Dr. Sanghamitra Jena	B. Tech., M. Tech (CET, BBSR) Ph.D (VSSUT BURLA)	Structural Engineering
11	Ms. Jhunarani Ojha	M. Tech, NIT Rourkela	Transportation Engineering
12	Dr. Ramkrishna Dandapat	B.E. (Bengal Engineering and Science University, Shibpur) M. Tech. (IIT Kharagpur), Ph.D. (IIT Kharagpur)	Structural Engineering
13	Mr. Ajaya Kumar Das	B.Tech (C.E.T Bhubaneswar), M.Techin Structural Engineering, IIT DELHI	Structural Engineering
14	Ms. Kajal Swain	B.Tech, ITER (SOA University), Bhubaneswar, M.Tech. NIT, Rourkela	Geotechnical Engineering
15	Ms. Kirtisuta Bhoi	B.Tech (VSSUT, Burla), M.Tech(VSSUT, Burla)	Water Resources Engineering
16	Mr. Sushant Kumar Sial	B.Tech (VSSUT, Burla) M.Tech	Transportation



	(IIT Kharagpur)	Engineering
17 Ms. Abhayaa Nayak	B.Tech (IACR, Rayagada),	Water Resources
	M.Tech (V.S.S.U.T Burla)	Engineering

Non-teaching Staff Details:

Sl. No.	Name	Designation	Mail id
1	Sri Niroj Kumar Mishra	Sr. Instructor	norojmsmr@yahoo.co.in
2	Sri Avaya Kumar Satapathy	Sr. Instructor	avsatapathy7@rediffmail.com
3	Sri Kailaspati Khandit	Sr. Instructor	kpkhandit.vssut@gmail.com
4	Sri Gobardhan Suna	Sr. Instructor	Pintugold38@gmail.com
5	Sri Braja Kishore Ojha	Sr. Instructor	braja.ojha.123@gmail.com
6	Sri Akash Chandra Pal	Lab. Attendant	
7	Sri Basudeb Sahu	Lab. Attendant	
8	Sri Sarathi Sendria	Lab. Attendant	
9	Sri Krushna Nanda	Lab. Attendant	
10	Sri Chaka Suna	Lab. Attendant	
11	Sri Krushna Chandra Gouda	Office Assistant	
12	Sri Chakradhar Behera	Office Attendant	
13	Sudarshan Sahoo	Lab. Attendant	



DEPARTMENT OF ARCHITECTURE

1. About the Department:

The Department of Architecture was established in 2013 in VSSUT, Burla. The department is offering a five-year undergraduate B. Arch course and Ph.D. Its teaching program covers the broad spectrum of understanding, planning, designing, and constructing human habitats and environments. The course opens up opportunities for higher studies, research, and professional careers in designing, planning, and managing built environments, 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 ensuring that the students are nurtured in an environment with 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 for co-curricular and explorative activities, where team spirit, leadership qualities, management skills, and tech proficiency are developed.

There is a good opportunity to get exposure to up-to-date technological advancement, and knowledge of emerging research fields through the international conferences and symposiums regularly organized by the University. The University has state-of-the-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 center of Architecture education in India.

2. Vision and Mission of the Department

The Department of Architecture has earned a distinguished reputation at both the state and national levels for its commitment to nurturing creative and talented architects of the future. Our graduates have consistently excelled in their respective career paths, reflecting the high standards of education and guidance they receive during their time with us.



One of the department's key strengths is the rapidly developing Consultancy Cell, which has undertaken a variety of significant projects for state and central government agencies. This cell has become a vital part of the department, contributing to real-world solutions and enhancing the practical experience of our students and faculty alike.

The department is actively engaged in cutting-edge research across several critical areas, including Urban Utility Systems & Solid-Waste Management, Blue-Green Infrastructure, Monitoring Urban Environment, and Urban Heritage. These research works not only advance knowledge in these important fields but also prepare the students to address the complex challenges of contemporary urban environments.

We take pride in fostering a congenial work culture and strong team spirit, which we believe are essential for efficient functioning and academic success. Our students' achievements speak for themselves—they have been highly acclaimed for receiving prestigious awards and accolades from the Indian Institute of Architects, Odisha Chapter, among other recognitions.

The students also actively participate in a variety of state and national-level events, such as Techfests and the Annual Conventions of the National Association of Students of Architecture (NASA). These experiences further enrich their education and prepare them for successful careers in architecture.

One of the highlights of our department is the Annual Department Exposition, 'Tejas,' a popular event that showcases the exceptional work of our students. 'Tejas' has garnered high appreciation from both the university community and external visitors, underscoring the quality and creativity that our students bring to their projects.

At the Department of Architecture, we are committed to ensuring quality teaching and maintaining academic discipline. We continuously strive to enhance our pedagogy, update our course curriculum, and provide regular student monitoring and counselling, all of which contribute to the holistic development of the students.

3. Faculty details:

Name	Qualification	Specialization
<u>ASSOCIATE PROFESSOR & HEAD</u>		
1. Dr. Bharati Mohapatra	B. Arch (CET), M.Arch (Jadavpur University),	Urban Design and Planning



Ph.D (SAP, Anna University)

ASSISTANT PROFESSORS

- | | | | |
|----|----------------------------|--|---|
| 2. | Mr. Amit Chatterjee | B. Arch (University of Mysore), M. Arch (D. Y. Patil College of Engg. And Tech.) | Architecture Conservation, Sustainable Architecture, Green Building Infrastructure, and Theory of Design. |
| 3. | Mr. Shaswat Sekhar Sarangi | B. Arch (NIT Raipur) | History of Architecture, Vernacular Architecture, Theory of Architecture |

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Courses Offered:

- B.Arch Degree in Architecture and Ph.D

4. Laboratory Details:

1. Architectural Design Studio

- Smart Interactive Digital Board
- Overhead Projector and projector screen
- Drafting Tools
- Movable Display Panels

2. Model Making Studio

- Model Making tools
- Electric Thermocol Cutter

3. CAD Lab

- Adequate no. of Computers
- Online UPS with Battery
- Plotter
- Software installed



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.

2. Mission & Vision

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.

• Courses Offered :

• Under Graduate Programme :

- B. Tech in Computer Science and Engineering: 120 Seats
- B. Tech in Computer Science and Engineering (Specialization AI & ML): 60 Seats

• Post Graduate Programme :

- M. Tech. CSE (Specialization: CSE): 36 Seats
- M. Tech. CSE (Specialization: AI & ML): 18 Seats
- M. Tech. CSE (Specialization: Data Science): 18 Seats
- M. Tech. CSE (Specialization: IOT): 18 Seats
- M. Tech. CSE (Specialization: Cyber Security): 18 Seats
- MCA (Master in Computer Applications): 30 Seats

• Ph. D Programme

- Doctor of Philosophy in Engineering (Ph.D in Engineering

• Laboratory Details :

Sl. No.	Name of the Lab	Major Equipment	Research Facilities
1.	Computing Laboratory-I	35 Nos. of HP Intel Core i7 @3.4 GHz, 4 GB DDR3 RAM, 500 GB 7200rpm HDD, Windows 8 Professional OS (406 G1) desktops	C++, MS Access, Internet and Web Design, Computer Graphics, Java



2.	Computing Laboratory-II	40 Nos. of HP Intel Core i7 @3.4 GHz, 4 GB DDR3 RAM, 500 GB 7200rpm HDD, Windows 8 Professional OS (406 G1) desktops	Operating Systems, Computational, Data Structures, etc
3.	System Programming Laboratory	30 Nos. of Intel Core i7-3770 @ 3.4GHz, 4 GB 1333 MHz DDR3 RAM, 500 GB 7200 rpm HDD PCs with Ubuntu operating systems.	Linux based software such as gcc, g++, java
4.	Simulation Laboratory	30 Nos. of Intel Core i7 processor under Windows 8 Platform.	Simulators such as 8085, 8086 simulators for assembly language program, gcc, g++ and java
5.	Computer Organization Laboratory	18 No.s of Intel Core i7-3770 @ 3.4GHz, 4 GB 1333 MHz DDR3 RAM, 500 GB 7200 rpm HDD, Windows 8 Professional OS installed with licensed Proteus Software (25 users) RAM Trainer Kit (15 Nos.), ALU Trainer Kits (15 Nos.), Computer and SMPS Kit (02 Nos.), Hard Disk Controller Kits (15 Nos.), Printers and Scanner Trainer Kits (02 Nos.) RTC and Temperature Measuring Kits (15 Nos.).	computer organization and Digital Circuit design
6.	Advanced Computing Laboratory	30 Nos. of Intel Core i7-3770 @ 3.4GHz, 4 GB 1333 MHz DDR3 RAM, 500 GB 7200 rpm HDD PCs with Ubuntu operating systems.	Linux based software such as gcc, g++, java
7.	Windows Lab	30 Nos. of Intel Core2 Duo E7600, 3.06 GHz, 1066 MHz FSB, 2 GB RAM, 64-bit OS, Windows 7.	C-Programming, C++, Computational, Data Structure,
8.	Linux Lab	30 Nos. of Intel® Core i7-4790 CPU @ 3.60GHz, 4 GB RAM, 64-bit OS, Windows 8.1 Pro	Operating System, DBMS, Computational, Data Structure
9.		20 Nos. of HP ProOne 400 G1	This lab is exclusively



	M. Tech Research Scholars' Laboratory	Intel Core i3 4130, H8 Chipset, 4GB DDR-3 500GB HDD, 20' wide LED monitor all in one PC under Linux OS	Dedicated for the M.Tech scholars to carry out their research work.
10.	Ph. D. Research Scholars' Laboratory	14 Nos. of Intel Core i7-3770 @ 3.4GHz, 4 GB 1333 MHz DDR3 RAM, 500 GB 7200 rpm HDD PCs with Ubuntu operating systems	This laboratory for the research work of Ph.D. students which is open for almost 12 hours. All the systems are networked with Local Area Network for accessing 2 GBPS Internet connection.



Computer Organization Lab



Computing Lab – I

• **Faculty Details**

Sl. No.	Name	Qualification	Research Area	Research Publications
<u>PROFESSORS</u>				
1.	Prof. (Dr.) Amiya Kumar Rath	(On Deputation) (On Lien) B.E. (Marathwada Univ.), M.Tech (Utkal), Ph. D. (Utkal) MBA, (Systems Management)	Computer Architecture, Embedded system, Data Structure	Indexed journals: 19 Conference Proc.:03 Book/Book Ch.:12
2.	Prof. (Dr.) Manas Ranjan Kabat	(On Lien), B.E. (Utkal University), M.E. (Bengal Engineering College, Calcutta), Ph.D (Sambalpur University)	Internet and Quality of Service, Computer algorithms, Real-Time Systems Artificial	Indexed journals: 24 Conference Proc.:16 Book/Book Ch.:04



3.	Prof. (Dr.) Himansu Sekhar Behera	M.E., Comp Sc & Engineering, N.I.T, Rourkela (Formerly R.E.C, RKL) Ph.D., Computer Sc. & Engineering (B.P.U.T, RKL), LMIAENG, MISTE, MISTD, SMIACSIT, LMOITS, LMOMS, LMAIAER	Intelligence, Wireless Sensor Network Data Mining, Computational Intelligence, Soft Computing & Evolutionary Computation, Pattern Recognition, Distributed System	Indexed journals: 65 Conference Proc.:68 Book/Book Ch.:03
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ASSOCIATE PROFESSORS

4.	Dr. Suvasini Panigrahi	B.Tech. (Utkal University), M. Tech. (Utkal University) Ph.D., (IIT Kharagpur)	Database and Information Security	Indexed journals: 24 Conference Proc.:34 Book/Book Ch.:04
5.	Dr. Sucheta Panda	MCA(REC,ROURKEL A), M.TECH(NIT,ROURKELA), Ph.D (NIT,ROURKELA)	Image Processing, Computer Vision, Artificial Intelligence, Deep Learning	Indexed journals: 11 Conference Proc.:59 Book/Book Ch.:02
6.	Dr. Manas Ranjan Senapati	B.E(Marathwada University); M.Tech(Utkal University; Ph.D(Biju Patnaik University of Technology)	Data Mining, Image Processing, Pattern Recognition, CI	Indexed journals: 34 Conference Proc.:12 Book/Book Ch.:03
7.	Dr. Pradip Kumar Sahu	B. E. Comp Sc. & Engineering, VSSUT, Burla (Formerly UCE, Burla), M. E. Computer Sc. & Engineering (Jadavpur University), Ph. D (IIT Kharagpur)	Embedded Systems, VLSI, NoC, SoC, Computer Architecture, Microprocessor	Indexed journals: 20 Conference Proc.:13 Book/Book Ch.:04
8.	Dr. Satyabrata Das	B.E(CSE), M.Tech(CSE), Ph.D(Information & Communication Technology),	Information & Communication Technology	Indexed journals: 33 Conference Proc.:35 Book/Book



<u>ASSISTANT PROFESSORS</u>		MBA(Systems)(First Class 1st)	Ch.:07
9.	Dr. Satya Prakash Sahoo	PhD (CSE), M. Tech (CSE)	Computer Networks, Data Structure, Soft Computing, Database Engineering Indexed journals: 03 Conference Proc.:06 Book/Book Ch.:04
10.	Dr. D. Chandrasekhar Rao	(On Lien) Ph.D-Computer Science &Engineering, VSSUT, Burla, M.Tech-Computer Science &Engineering, BPUT, Rourkela, B. Tech- Information Technology, BPUT, Rourkela	Peer to Peer Network, Theory of Computation, Compiler Construction, Computer Network, Soft computing, Robotics Indexed journals: 14 Conference Proc.:13 Book/Book Ch.:04
11.	Dr. Kishore Kumar Sahu	Ph.D.(CSE), VSSUT, Burla, M.Tech (CS), Berhampur University, B.Tech(IT), BPUT, Rourkela	Data Mining, Soft Computing, Forecasting Systems, Automata Theory, System Software and Compiler Desing Indexed journals: 08 Conference Proc.:02 Book/Book Ch.:04
12.	Dr. Sanjib Kumar Nayak	B.E(CSE), M.Tech(IT), Ph.D.(IT), PGDIT, PGDDM	Cloud Computing Indexed journals: Conference Proc.: Book/Book Ch.:
13.	Dr. Sasmita Acharya	B.E. (CSE) from Utkal University, M.Tech (CSE) from BPUT, Ph.D (CSE) from VSSUT, Burla	Wireless Sensor Networks, Vehicular Adhoc Networks, Internet of Things, Soft Computing Indexed journals: 08 Conference Proc.:07 Book/Book Ch.:06



14. Mrs. Sasmita Behera	B.Tech (CSE) from U.C.E, Burla (VSSUT), M. Tech (CSE,) from NIT Rourkela, PhD continuing	Computer Organization and Architecture, Computer networking	Indexed journals: Conference Proc.:08 Book/Book Ch.:01
15. Dr. Sumitra Kisan	B.Tech (CSE, UCE,Burla), M. Tech (ISM,Dhanbad), Ph.D (pursuing), Utkal University Bhubaneswar	Cryptography &Network security, Image Processing &Fractal study	Indexed journals: 10 Conference Proc.:04 Book/Book Ch.:04
16. Mr. Sujaya Kumar Sathua	M. Tech. (CSE, NIT Rourkela), B. Tech. (IT, VSSUT Burla)	Image Restoration and Cloud Computing	Indexed journals: 24 Conference Proc.:34 Book/Book Ch.:04
17. Mrs. Etuari Oram	M.Tech (CSE, NIT,Rourkela)	Wireless Sensor networks, software Engineering, Data Mining	Indexed journals: Conference Proc.: Book/Book Ch.:
18. Dr. Bighnaraj Naik	Ph.D. (CSE, VSSU, Burla), M.Tech, B.E.	Data Mining, Machine Learning, Soft Computing	Indexed journals: 19 Conference Proc.:21 Book/Book Ch.:
19. Dr. Gyanaranjan Shial	B. Tech (VSSUT, Burla), M. Tech. (IIT Bombay), Ph.D. (SU)	Computer Science &Engineering	Indexed journals: 03 Conference Proc.:01 Book/Book Ch.:01
20. Dr. Pradipta Kumar Das	B.E, M.Tech (Jadavpur University) Ph.D	Machine Intelligent and Computer Vision, Emotional Intelligent, Robotics, Video processing	Indexed journals: 20 Conference Proc.:08 Book/Book Ch.:
21. Mr. Atul Vikas Lakra	M. Tech. (CSE, MNNIT Allhabad) B. Tech. (CSE, UCE Burla)	Cloud Computing	Indexed journals: Conference Proc.:



			Book/Book Ch.:
22. Dr. Santosh Kumar Majhi	(On Lien) B.Tech(VSSUT Burla), M.E(Utkal University), Ph.D (Sri Sri University)	Cloud Computing, Data Science, Machine Learning, Information Systems	Indexed journals: 34 Conference Proc.: 23 Book/Book Ch.:04
23. Mr. Suresh Kumar Srichandan	B.Tech (CSE,U.C.E, Burla), M.Tech (CSE,VSSUT, Burla)	Computer Networks	Indexed journals: Conference Proc.: Book/Book Ch.:
24. Mrs. Alina Mishra	B. Tech. (BPUT), M.Tech (NIT Rourkela)	Software Engineering, Program Slicing, Soft computing	Indexed journals: Conference Proc.: Book/Book Ch.:
25. Dr. (Mrs.) Santi Behera	B. Tech. (CSE, BPUT), M. Tech. (CSE, NIT Rourkela), Ph. D. (CSE, VSSUT, Burla)	Image processing, Computer Vison, Machine Learning, Deep Learning	Indexed journals: 31 Conference Proc.:11 Book/Book Ch.:10
26. Mrs. Alina Dash	B. Tech (VSSUT,Burla), M. Tech (NOU, Baripada)	Computer Networking	Indexed journals: Conference Proc.: Book/Book Ch.:
27. Dr. Kshiramani Naik	Ph. D. (CSE, IIT Dhanbad), M. Tech. (CSE, NIT Rourkela), B. E. (CSE, UCE, Burla)	Image Processing	Indexed journals: 05 Conference Proc.:04 Book/Book Ch.:04



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. Scope of Electronics and Telecommunication Engineering

An Electronics and Communications engineer can work in aviation and avionics, consumer electronics, electricity plants, manufacturing, transportation, communication & telecommunication, computer application, radio & television, diagnostic equipment manufacturing and offshore companies. There is an opportunity to get a central government job, state government job, and in the public & private sectors. Check below the list of Electronics and Communication Engineering jobs and the average salary offered to the respective job profile.

3. Vision & Mission

Vision

Developing new ideas in the field of communication to enable students to learn new technologies, assimilate appropriate skills and deliver meaningful services to the global society and improve the quality of life by training them with strength of character, leadership and self-attainment



Mission

- Imparting futuristic technical education to the students.
- Promoting active role of Industry in student curriculum, projects, R&D and placements.
- Organizing collaborative academic and non-academic programmes with institutions of national and international repute for all round development of students.
- Organizing National and International seminars and symposium for exchange of innovation, technology and information.
- Expanding curricula to cater to demands of higher studies in internationally acclaimed institutes.
- Preparing students for promoting self-employment.
- Develop the department as a centre of excellence in the field of VLSI and communication technology by promoting research, consultancy and innovation.

4. Courses Offered:

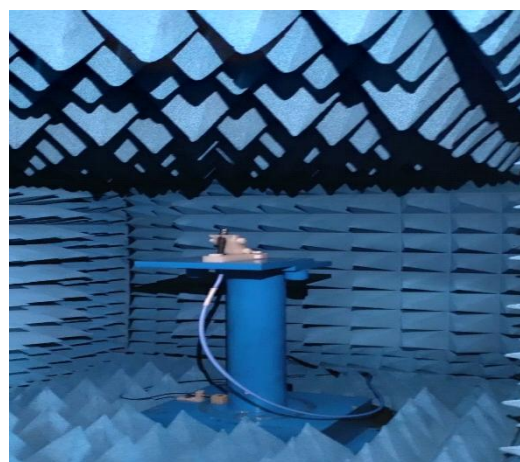
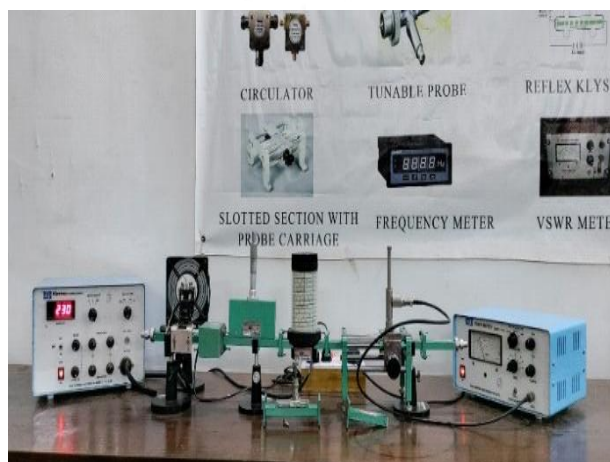
Name of Program	Program Applied level	Start of year	Current Intake
Electronics and Telecommunication Engineering	UG	1972	120
Communication System Engineering	PG	1995	18
VLSI Signal Processing	PG	2012	18
RF Microwave Engineering	PG	2014	18
Ph.D. : Doctor of Philosophy			

5. Placements Records:

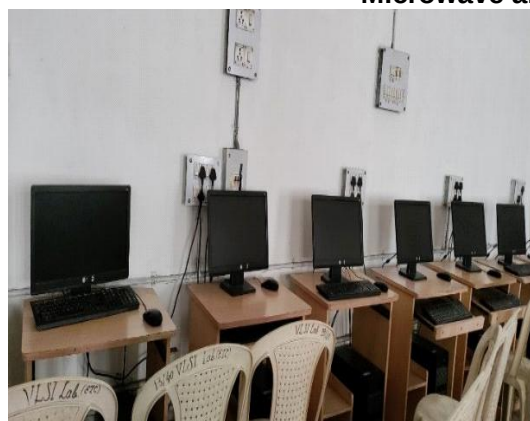
	2022-2023	2021-2022	2020-2021
Total No of Final Year Student	120	123	118
No of students placed in the companies or government sector	98	88	75
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.	5	10	4

**6. 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, Multi output power supply, PSPICE, Training Kits	
2.	Microprocessor Laboratory	Microprocessor trainer kits (8085,8086), Microcontroller trainer kits (8051), Interfacing cards	
3.	Analog & Digital Electronics circuits Laboratory	Analog/Digital storage CRO, 20/30 MHz CRO, 5MHz function/pulse generator, Analog & Digital multimeters, Multi output power supply, Bread boards with function generator	
4.	Communication Systems Laboratory	Analog/Digital storage CRO, Signal Analyzer, Satellite communication kit, Radar trainer kit, Kits for Analog and Digital Communication, PCs with LABVIEW software	
5.	Microwave and Radiation Laboratory	Microwave Test Benches, Microstrip Antenna trainer, PCs with Ansys High-Frequency Structure Simulator (HFSS) and Advanced Design System (ADS), RF signal generator, Vector Network Analyzer, spectrum Analyzer, Anechoic Chamber	Microstrip Antenna design and verification
6.	Digital Signal Processing Laboratory	PCs with Image Lab Software and MATLAB	
7.	VLSI Laboratory	PCs with softwares as Xilinx, PSpice, Microwind and FPGA trainer kits	
8.	Telecom. System Engg. Laboratory	PCs with MATLAB, Xilinx, Cadence and Silvaco softwares	Communication Engineering



Microwave and Radiation Laboratory



EDA Laboratory



VLSI Laboratory

7. Faculty Details

Sl. No.	Name & Qualification		Specialization
PROFESSORS			
1.	Prof. Sanjay Agrawal	Ph.D., Sambalpur University, India (2015); M.Tech., Department of Electronics & Telecommunication Engineering, UCE Burla, India (2003); B.E., Department of Electronics & Telecommunication Engineering, UCE Burla, India (1995)	Communication System Engineering



2.	Prof. Harish Kumar Sahoo	B.E. (Utkal University), M.Tech. (N.I.T. Rourkela), Ph.D. (Engineering) (Sambalpur University)	Electronic Systems & Communication, Adaptive Modeling and Estimation
<u>ASSOCIATE PROFESSORS</u>			
3.	Dr. Debasis Mishra	BE: University of Mysore - 1992, M.Tech : IT, BHU- 2001, Ph.D (Engineering) : Jadavpur University -2008	Microwave Engineering
4.	Dr. Manoranjan Pradhan	B.E.: 1992 (U.C.E., Burla) M.E: 2005(U.C.E., Burla) Ph.D (Engineering) 2013 (Sambalpur University)	FPGA based VLSI Design, Microprocessor
5.	Dr. Kabiraj Sethi	Ph.D	Communication System Engineering/VLSI Design
6.	Dr. Arunanshu Mahapatro	Diploma, BE, M. Tech, PhD (NIT Rourkela)	Communication Systems Engineering
7.	Dr. Nilamani Bhoi	B.E. - University College of Engg., M.E.- Jadavpur University , Kolkata, PhD - National Institute of Technology, Rourkela	Image Processing
8.	Name :Dr. B. B. Mangaraj	(On Lien) B. E (1994, UCE Burla); M.E. in ETCE (2003, Jadavpur University); Ph.D. in Engineering (2012, Jadavpur University).	M.E.: Electronics & Telecommunication Engineering , Ph.D.: Antenna Engineering
<u>ASSISTANT PROFESSORS</u>			
9.	Dr. Hrudananda Pradhan	BE (Electronics and Telecommunication Engineering), M Tech (Electronic	Microwave and Antenna Engineering



		Systems and Communication)	
10.	Dr. Diptimayee Konhar	(Grade-III) Ph.D	Antenna Engineering
11.	Dr. Bikramaditya Das	(On Lien) B.Tech (BPUT, Rourkela in 2007), M.Tech (NIT, Rourkela in 2010), Ph.D (VSSUT, Burla in 2016)	Wireless Communication, Adaptive Control, Control of Underwater Vehicles, ROBOTICS
12.	Dr. Suvendu Narayan Mishra	(Grade-III) B.E.(ETC) 2003 (Utkal University Odisha, Bhubaneswar) MTech.(ETC) 2010 (VSSUT Odisha, Burla) Ph.D. (Engineering) 2021 (VSSUT Odisha, Burla)	Communication Systems Engineering
13.	Dr. Bandan Kumar Bhoi	BTech in Electronics and Telecommunication,BPUT Odisha, MTech in VLSI &Embedded system,IIIT Hyderabad PhD, VSSUT Burla	VLSI Design and Embedded System
14.	Mr. Aditya Kumar Hota	Ph.D.(VSSUT), M.TECH.(VSSUT), B.E.(Sambalpur University)	Communication System Engg.
15.	Dr. Madhusmita Panda	PhD in Underwater Communication from VSSUT, Burla in 2021, M.B.A (H.R) from IGNOU, New Delhi in 2012., M. Tech (Computer Science) from G.I.E.T, Gunupur, B.Tech (Electronics &Instrumentation) from J.I.T.M,Paralakhemundi	UNDERWATER COMMUNICATION AND CONTROL
16.	Ms. Rasmita Sahu	B.E From S.M.I.T(BPUT),M.tech from VSSUT,Burla, PhD (continuing)	Communication system Engineering
17.	Ms. Lopamudra Ghadei	M.Tech.	Digital signal processing
18.	Dr. Sakambhari Mahapatra	Ph.D. (VSSUT, Burla), M.Tech. (VSSUT, Burla), B.Tech. (BPUT).	Communication System Engineering (M.Tech)
19.	Dr. Manasa Ranjan Jena	B.Tech.(Electronics &Instrumentation), M.Tech.(Microelectronics and VLSI, IIT Kharagpur), PhD (Sambalpur University).	Microelectronics and VLSI Design
20.	Mr. Dharamvir Kumar	BE(Electronics	ECE, VLSI



		&Telecommunication Engg.), IETE, New Delhi. M.Tech(Electronics &Communication Engg.), ISM, Dhanbad.	
21.	Dr. Ananda Kumar Behera	B.Tech. (2009,BPUT), M.Tech (2013,NIT Durgapur)	Tele Communication Engineering
22.	Dr. Sheeja K. L.	Mtech (NIT Rourkela), PhD (NIT Rourkela)	RF and Microwave
23.	Ms. Sangeeta Sa	B.Tech from UCE Burla, M.E. from IISc Bangalore	Telecommunication
24.	Mr. Bijay Kumar Sa	B.Tech. 2009 in Electronics &Telecommunication, BPUT Odisha, M.Tech. 2013 in Communication &Signal Processing, NIT Rourkela	Communication &Signal Processing
25.	Dr. Ashish Kumar Sharma	B.Tech, M.Tech (VTU Belgaum), PhD (BITS-Pilani Rajasthan)	Communication Systems
26.	Ms. Tunirani Nayak	B.Tech from UCE Burla (2005) , M.Tech from ITER SOA University (2011) , Ph.D continuing	Image and Signal Processing
27.	Mr. Subrat Kumar Sethi	B.E., M.Tech.(IIT, Kharagpur)	Communication Engineering
28.	Dr. Radhashyam Patra	Ph.D (VSSUT Burla), M.Tech (IIT-BHU Varanasi), B. Tech (VSSUT Burla)	Wireless Communication

8. Non-teaching Staff Details:

Sl. No.	Name	Designation	Mail id
1.	Mr. Suraj Kumar Mishra	Senior Instructor	srj9490@rediffmail.com
2.	Mr. Ramji Dehury	Senior Instructor	ramjidehury@gmail.com
3.	Mr. Surjyakanta Sahoo	Mechanic Gr. - III	sipunsahoo71@gmail.com
4.	Mr. Rama Chandra Sahoo	Treasury Sarkar	
6.	Mr. Pramod Kumar Swain	Lab. Attendant	Pramodswain0000@gmail.com
7.	Mr. Narendra Parida	Lab. Attendant	
8.	Mr. Ghasiram Mahakud	Lab. Attendant	
9.	Umakanta Meher	Clerk	



DEPARTMENT OF ELECTRICAL ENGINEERING



1. About The Department

The Department of Electrical Engineering of the erstwhile University College of Engineering, Burla is one among the first branches to be instituted in 1956. The department has grown in consonance with the changing needs of the society and pushed new frontiers of the discipline without shedding its strength in core areas of electrical engineering. The department has integrated modern pedagogical methods incorporating the focus to instill 21st century skills in the students. The contribution of the department to nation building is highlighted by the prominent positions occupies by the alumni 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, MTech. in Electrical Engineering with three specializations, that is, Power System Engineering, Power Electronics Control and Drives and Control and Instrumentation and doctoral program. The UG and PG programs of the department has been approved by AICTE and accredited by National Board of Accreditation. Faculty members of the Electrical department have specializations in diverse fields of Electrical Engineering such as Power systems, Electrical Machines, Electrical Drives, High Voltage



Engineering, Control and Instrumentation, Hybrid Electric Vehicles, and Renewable sources of Energy. The department has an excellent state of the art laboratory facilities dedicated for teaching and research. The department has adopted flexible curricular structures for under graduate final year students in order to enable creative combinations of disciplinary areas for study in multidisciplinary contexts that would also allow flexibility in course options in addition to rigorous specialization in electrical engineering.

2. Scope of Electrical Engineering

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.

- Promote academic excellence.
- Raise the level of knowledge, competence, and skills in manufacturing engineering.
- Implementation of new curriculum and innovative instructional methods, such as self-paced learning, problem-solving projects, training in industry.
- Establish and expand research capabilities for students and faculty.
- Consulting projects that will serve industry and the community.
- Exposure and experience with advanced technologies such as Soft Computing, Artificial Intelligence, Machine Learning, Electric Vehicle, Sustainable Energy etc.

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

3. Vision & Mission

Vision of the Department

To be recognized as a centre of excellence in education and research in the field of Electrical Engineering by producing innovative, creative and ethical Electrical Engineering professionals for socio-economic development of society in order to meet the global challenges.

Mission of the Department

Electrical 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 enabling 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.

4. Courses Offered

The Department presently offers the following courses:

Program	Course	Period of Completion
B.Tech	Electrical Engineering	4
M.Tech	Electrical Engineering with specialization in a) Power System Engineering (NBA Accredited) b) Power Electronics Control&Drives c) Control &Instrumentation	2
Ph.D.	Doctor of Philosophy in all major fields of Electrical Engineering	

5. Placements Records

- Placements Statistic 2019-20 - 76
- Placements Statistic 2020-21 - 75
- Placements Statistic 2021-22 - 88
- Placements Statistic 2022-23 - 116

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, Cycloconverter, 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
8	Computation Laboratory	Details of Computers and Softwares: System Configuration: 28Nos Processor: Icore 5 RAM: 2GB HardDisk: 40GB Operating System: Microsoft Windows 8 Software's: MATLAB and Its Tool Boxes EMTDC/PSCAD ETAP, EMTP TC/VC++/VB++



Electrical Machine Laboratory



Power Electronics Laboratory



High Voltage Laboratory



Analog and Digital Electronics Laboratory



Power System Laboratory



Computational Laboratory



Control and Instrumentation



Laboratory

Force displacement, velocity, acceleration, vibration, torque and speed measurement trainers with NI Lab View License for virtual instrum



• Faculty Details

SL No.	Name	Designation	Specialization	Research Area
1	Dr. Bibhuti Bhusan Pati	B.Sc. Engg.from UCE Burla(Now VSSUT) M.Tech from IISc. Bangalore Ph.D (Engg) in from Utkal University, Odisha	Control System &High Voltage Engg.	Control System, Power System control, Adaptive Control
2	Dr. Manish Tripathy	B.E.(Sambalpu r University) M.E.(Sambalp ur University) Ph.D.(IIT Delhi)	Power System Engineering	Power Systems Dynamics, PSS, FACTs, Optimal Power Flow, Soft Computing techniques, Wind resource assessment and time series analysis of wind Power.
3	Dr. (Ms.) Banaja Mohanty	B.Tech. (CET, BBSR), M.Tech.(UCE, Burla), Ph.D(VSSUT, Burla)	Power System Engineering	Power Systems operation and control, fuzzy control, soft computing techniques
4	Dr. Papia Ray	B.Tech. (Govt. Engg college, Bihar) M.Tech(NIT Jamshedpur) Ph.D (IIT Delhi)	Power System Engineering	Power Systems &Power System Protection, Artificial Intelligence
5	Mr. Basanta Kumar Rana	ME (Integrated) in Electrical Engg. (IISc, Bangalore)	Real Time Hardware and Software	Artificial Neural Network, Communication Technology
6	Dr. Bidyadhar Rout	B.E.IGIT, Utkal University. M.E. BESU, (Now IEST), Shibpur, Ph. D (Engg) VSSUT, Burla	Power System Engineering	Design and application of nonlinear controller in Power system stability



7	Ms. Mamun Mishra	B. Tech. (BPUT) M. Tech. (VSSUT, Burla)	Power System Engineering	Power Distribution System Planning &Control, Islanding detection
8	Dr. Deepak Kumar Lal	B.Tech.(BPUT, Rourkela), M.Tech.(NIT Jamshedpur), Ph.D.(VSSUT Burla)	Power System Engineering	Distribution System Planning &Operation Automatic Generation Control Economic Load Dispatch Renewable Energy Integration Power Quality
9	Dr. Ramesh Chandra Prusty	B.Tech, M.Tech (VSSUT, Burla) PhD (VSSUT, Burla)	Power System Engineering	Power Systems operation and control, fuzzy control, soft computing techniques, Electric Vehicle
10	Dr. Raseswari Pradhan	Ph.D. (NIT, Rourkela) M.E.(Jadavpur University) B. Tech. (IGIT Sarang)	Control System	Control System Design, Adaptive control, soft- computing techniques, Photo-voltaic System
11	Dr. Rajat Kanti Samal	B.E. (Honours) (UCE Burla), M.Tech. (IIT Roorkee), Ph.D. (VSSUT)	Hydroelectric Systems	Hydroelectric Systems, Wind Energy, Power Systems
12	Dr. Debidasi Mohanty	B. Tech. (VSSUT Burla) M. Tech. (NIT Trichy) PhD (VSSUT, Burla)	Power System Engineering	Adaptive control, soft computing techniques, Microgrid operation and control, Fuzzy controller
13	Dr. Nutan Saha	B. Tech. (IGIT, Sarang) M. Tech. (IEST, Shibpur, West Bengal) Ph.D. (VSSUT)	Power Electronics, control and Drives	Application of soft computing techniques on Industrial Motor control



14	Dr. Rosy Pradhan	B.Tech (CET BBSR) M.Tech (NIT Rourkela) Ph.D. (VSSUT, Burla)	Control and Automation	Control System Design, Adaptive control, soft computing techniques
15	Ms. Bineeta Soreng	B.Tech (CET, Bhubaneswar), M.Tech (NIT Rourkela)	VLSI Design and Embedded System	Microgrid control, Islanding detection, Soft-computing Techniques, Model Predictive control
16	Dr. Prangya Mohanty	Ph.D(VSSUT, Burla) M.Tech(NIT, Rourkela) B.Tech(BPUT, Odisha),	Power System Engineering	Power Systems operation and control, fuzzy control, soft computing techniques
17	Mr. Amit Mallick	B.Tech (BPUT, Odisha) M.Tech(VSSUT, BURLA)	Power System Engineering	Power system operation and control, Microgrid control architecture, Power electronics control
20	Mr. Pratyusha Pratik	B.Tech(V.S.S. U.T BURLA) M.Tech(IIT ROORKEE)	System and Control	System and Control
21	Dr. Sagarika Rout	Assistant Professor Ph.D (VSSUT), M.Tech(VSSUT), B.Tech (BPUT)	Power System Engineering	Power System Engineering, Demand side management, Electric Vehicle
22	Mr. K Sujita Kumar Achary	B.E. (VSSUT Burla), M.Tech.(NIT Tiruchirappalli)	Power System Engineering	Power System protection and control
23	Ms. Bisaya Bhoi	M.Tech.(VSSUT Burla) B.Tech (IGIT Sarang)	Power System Engineering	Power System Engineering, Electric Vehicle



• **Non-teaching Staff Details**

SL No.	Name	Designation	Mail id
1	Sri S. P. Tripathy	Comp. Prog.	Sp_tripathy@rediffmail.com
2	Sri Deepak K Biswal	Sr Instructor	Deepak_uceelect@rediffmail.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	mrutynjaydas2@gmail.com
12	Sri. Parsu Haripal	Peon	haripalparsu@gmail.com
13	Sri Upendra Padhan	Peon	



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



- **About the Department:**

The Department of Electrical and Electronics Engineering (EEE) is dedicated to producing highly qualified engineers with a robust foundation in both electrical and electronics engineering. A program that originated within the Electrical Engineering department in 2010 and evolved into an independent entity in 2020. The department currently offers B.Tech. in EEE and provides a conducive academic environment for pursuing this undergraduate degree as well as a Ph.D. in specialized research domains.

The department aspires to lead in research and development in various cutting-edge areas such as Smart Grids, Power System Optimization, Power System Instrumentation, Industrial Automation, Smart Sensors, Robust Control, Image Processing, Digital Signal Processing, Industrial Communication, Biomedical Instrumentation, Medical Image Analysis, the Internet of Things (IoT), and Cyber-Physical Systems. It has successfully completed three projects and has five ongoing research/sponsored projects, collectively valued at over ₹54 lakhs. These projects are funded by prestigious organizations such as the Central Power Research Institute (CPRI), Bangalore, the Ministry of Power (MoP), Government of India, and the TEQIP grant by NPIU-MHRD New Delhi, DST, OURIP, TIDF. The ongoing projects focus on areas including IoT and Cyber-Physical Systems, Image Processing.. The department is equipped with state-of-the-art facilities, including one for testing and calibrating gas density sensors for SF6-GIS environments, supported by CPRI under the RSoP scheme. A Memorandum of Understanding (MoU) has been signed between VSSUT, CPRI for the design and development of advanced sensors for GIS applications., .A Memorandum of Understanding (MoU) has been signed between VSSUT and IIT Guwahati for health monitoring of large dam by using AI. This collaboration exemplifies the



department's strong industry-academia ties, aimed at addressing real-life challenges in the specialized domain of EEE in India.

To further enhance academic and research capabilities, the department is working towards establishing various laboratories, including the Instrumentation & Sensors Lab (Masters), Control Lab (Masters), CAD of electrical apparatus Lab Electrical, Signals & Systems Lab, Image and Signal Processing Lab, Network Lab, and Measurements and Instruments Lab. and Communication System Engineering Lab. Over 80% of the department's final-year students secure job offers from esteemed companies such as L&T, Bhusan, Adani, JSW, Jindal, TCS, Tata Power, Deloitte, TPWODL, Infosys, and Tech Mahindra. EEE students have also made their mark in national and international competitions and have been recognized by prestigious institutions like IITs, ISRO, BARC, HAL, and the Russian Federation. The department continues to build on this legacy of excellence.

The department offers an outcome-based education system, providing undergraduate students with opportunities to engage in two specialized research groups: "Smart Power and Energy Systems" and "Instrumentation and Signal Processing." Many students are also actively involved with the university's Innovation and Incubation Center, where they gain experience in design and prototyping, and develop entrepreneurial skills.

The department's faculty members have received significant recognition, with three being awarded Fellow positions by the Institution of Engineers (India), Life Membership by ISTE, India, and Senior Membership by IEEE, USA. The department holds 5 patents, has adapted an international edition book for the Indian subcontinent, published books, and produced numerous high-impact factor journal papers in national and international publications. Additionally, faculty members are actively involved in international committees focused on implementing standards and protocols.

The Department has research groups consisting of faculties in respective specialized areas enlisted below.

Smart Power and Energy System Research Group	Instrumentation and Signal Processing Research Group
Dr. R. K. Sahu	Dr. Gyan Ranjan Biswal
Dr. Gyan Ranjan Biswal	Dr. Lingraj Dora
Dr. Santi Behera	Dr. Sarmila Garnaik
Dr. Sasmita Behera	Dr. Bibhu Prasad Sahoo
Dr. Bibhu Prasad Sahoo	Mr. Prasant Kumar Parida (PhD pursuing)



1. Scope of Electrical and Electronics Engineering:

The scope of the Electrical and Electronics Engineering (EEE) department is broad and multifaceted, reflecting the dynamic and evolving nature of the field. Multi-disciplined, electronic and electrical engineers can work in a variety of industries, such as automotive, internet of things (IoT), gaming, manufacturing, smart devices, renewable energy technologies, IoT and smart systems, artificial intelligence and machine learning, electric vehicles (EVs), 5G Technology, and more, providing them flexibility in where they work and the variety of projects they work.

The department's commitment to research and development extends its scope beyond traditional engineering education. By fostering innovation in cutting-edge areas such as power system optimization, smart sensors, biomedical instrumentation, and digital signal processing, the EEE department positions itself as a leader in both academic and industrial research. The department's active participation in industry-sponsored projects and collaborations, such as those with the Central Power Research Institute (CPRI) and other governmental bodies, further enhances its role in advancing technological solutions that address real-world problems.

Moreover, the department's focus on practical, hands-on learning through well-equipped laboratories and research groups broadens its scope in preparing students for real-world applications. Through specialized labs and research initiatives, students gain practical experience in design, testing, and prototyping, which is essential for careers in both industry and academia. The department also plays a critical role in fostering entrepreneurship, with many students engaging in the university's Innovation and Incubation Center, where they can turn their innovative ideas into viable products and businesses.

In addition, the EEE department's scope encompasses a comprehensive education in electrical and electronics engineering, a strong emphasis on research and innovation, active industry collaboration, and the promotion of entrepreneurship, all of which prepare students to excel in various professional and research-oriented careers. The alumni are well established as Entrepreneurs in the most liked areas of 5G enable drones, IG Drones. They are dealing with various projects at national level as well as in the state level.

2. Vision and Mission:

Vision: The graduates in the Electrical & Electronics Engineering program of VSSUT Burla strive 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.



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

- M1 Imparting quality education to its students and enhancing their skills
- M2 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
- M3 Expanding curricula as appropriate to include broader prospective.
- M4 Establishing linkages with world class R&D organizations and leading educational institutions in Indian and abroad for excelling in teaching, research and consultancy
- M5 Developing simple and appropriate technologies for rural areas and eventually contributing to sustainable development of the society

3. Courses Offered:

The department presently offers the following courses:

- B. Tech in Electrical and Electronics Engineering
- M.Tech. degree in Electrical and Electronics Engineering with Specialization in (Sensors & Cyber Physical System)
- Doctor of Philosophy (Ph.D.) in specialized research areas of EEE.

4. Placement Records:

- Placement Statistics 2019-20: 57
- Placement Statistics 2020-21: 65
- Placement Statistics 2021-22: 50
- Placement Statistics 2022-23: 59
- Placement Statistics 2023-24: 22

Sl. No.	Name of the Lab	Major Equipments	Research Facilities
1	Automation and Sensors Lab	Sensors	Power system gas detection
2	CAD Electrical Apparatus Lab	Desktop Computers with MATLAB Software	Simulation of electrical systems, hardware interface, IOT application
3	Signals Lab	Desktop Computers with MATLAB Software	Digital signal processing
4	Measurement Lab	Ac servomotor, compensation design, calibration of DC milli ammeter by DC potentiometer, DC/AC Bridge circuits, digital control system	Using bread board trainer analysis of analog circuit and control circuit.
5	Circuits and Communication Lab	Trainer Kits, Digital Circuit Boards, DSO	Digital modulation analog modulation ,multiplexing



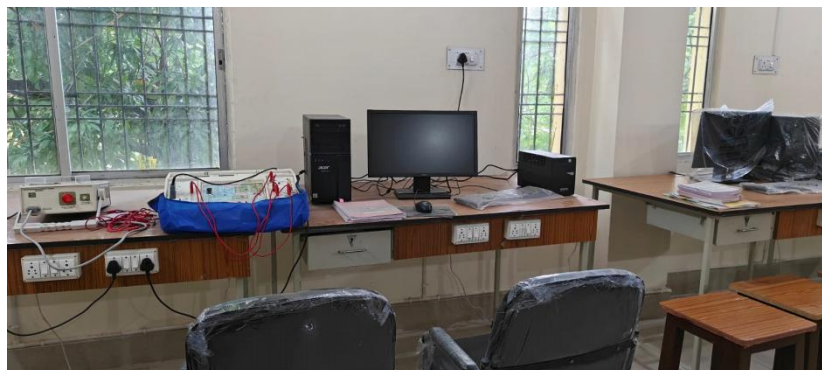
5. Laboratories Details:

Besides these laboratories, advanced laboratories such as AI and Machine Learning Lab, EV and Renewal Energy Lab, Embedded System Lab, B. Tech Project Lab, Ph.D Research Lab are in the developmental stage.

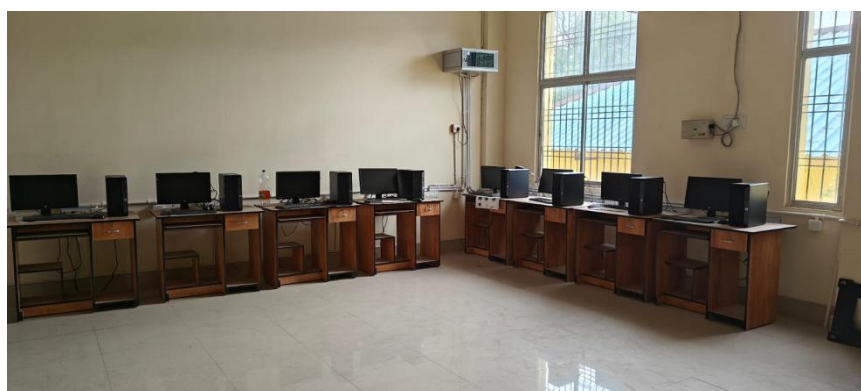


Communication Lab





Measurement Lab



Signals Lab

**7. Faculty Details:**

Sl. No.	Name	Qualification	Specialization
<u>PROFESSOR</u>			
1.	Prof. Rabindra Kumar Sahu	Ph.D (IIT Madras), FIE(I),LMISTE	Power System Engineering
<u>ASSOCIATE PROFESSORS</u>			
2.	Dr. Gyan Ranjan Biswal	Ph.D., IIT Roorkee; M.Tech. (Honours), CSVTU Bhilai; B.E., Pt. RSU Raipur	Power System Instrumentation (Automation)
3.	Dr. Santi Behera	B.Tech (Electrical Engineering), C.E.T, O.U.A.T, Bhubaneswar. 1995 M.E (Power System Engineering) Sambalpur University. 1999 Ph.D (NIT, Rkl).	Power system stability, optimization techniques(PSAT)
<u>ASSISTANT PROFESSOR</u>			
4.	Dr. Sarmila Garnaik	B. Tech. (Electronics & Telecommunication Engineering, Utkal University, 2001), M. Tech. (Communication System Engineering, UCE, Burla, 2008), Ph.D. in Engineering	Speech Signal Processing
5.	Dr. Lingraj Dora	B. E (U.C.E, Burla, 2006), M. Tech (VSSUT, Burla, 2010), PhD (VSSUT, Burla, 2019)	Medical image processing, Pattern recognition and Communication system engineering
6.	Dr. Sasmita Behera	B.E. (UCE, Burla, SU)(2000), M. E (BPUT)(2003), Ph. D (VSSUT)(2017)	Power System
7.	Dr. Bibhuti Prasad Sahoo	B. Tech (Electrical Engineering, NIT, Rourkela, 2007), M.Tech (Measurement & Instrumentation, IIT Roorkee, 2011), PhD (Electrical Engineering, VSSUT, Burla, 2022)	Measurement & Instrumentation
8.	Mr. Prasanta Kumar Parida	B. Tech (Electronics and Telecommunication Engineering , VSSUT, Burla, 2007), M.Tech (Communication System Engineering, VSSUT, Burla, 2012), Ph.D(Continuing at VSSUT, Burla)	Communication System Engineering



8. Non-Teaching Staff Details:

Sl. No.	Name of the Staff	Designation	E-mail
1	Tapapradipta Sanjibita Das	Caretaker	tapapradiptadas@gmail.com
2	Sri Surendranath Sahu	Lab. Attendant	nathsahusurendra1234@gmail.com
3	Sri Kartika Khadia	Peon	kartikakhadia1983@gmail. com
4	Sri Pabitra Kumar Rath	Jr. Instructor	rathpabitra8@gmail.com
5	Sri Durga Prasad Jena	Jr. Instructor	durgaprasadjena0007@gmail.com



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 strength of the department. Students of this department are performing very well in competitive examinations such as GATE, GRE, CAT, UPSC. Students are placed in a number of responsible positions and many of their are pursuing their higher studies in prestigious institutes of the country like IISc Bangalore, IITs, NITs and IIMs. Moreover, the department has a rich pool of faculties with expertise in their respective areas and 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 3500) to serve the humanity both nationally and internationally, with excellence.

2. Scope of Mechanical Engineering:

Mechanical Engineering is a branch of engineering and technology, which deals with the favorable application of the laws of nature in micro/macro level. In the micro level the effect of quanta of energy bundle prompts the development of new areas of study, such as the nuclear fission/fusion to the generation of electricity and power without disrupting the eco-system. Development of power from both conventional and non-conventional sources of nature breeds the Power Plants. Then, the macro level analysis creates the opportunity to study the material and its properties which leads to the science and art on designing prospects. For this reason, our faculties are imparting some fundamental knowledge to all students enrolling in engineering.

During the under graduate study we inculcate the basic fundamentals of engineering to ensure that a young brain could allow to understand any thing happening under this solar system. Hence, someone will visualize the breadth and length of Mechanical Engineering. After that, the Post Graduate (PG) study enables one to educate himself to unveil the secrets of natural laws



in a particular area, so that it promotes a skilled professional. The Doctor in Philosophy (Ph D) in this branch opens a mindset to understand, analyze and answer the questions 'How and Why' in a particular focused area. In other words the in depth study starts only after graduation level, which aims to foster awareness among the budding technocrats, researchers and scientists.

The curriculum of this branch is designed and furnished by seeking the most recent trends to keep pace with international standard. The opportunity of up gradation and revision of curriculum by peer groups enables the engineering graduates of our branch to sustain in any situations in fast changing scenarios. For this reason, our department is recently accredited by the peers of AICTE team for 5 years from 2006. During last 5 decades, this branch produced high standard self motivated professionals (around 3500) of this land to serve the humanity both nationally and internationally at par excellence.

3. Vision & Mission:

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 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.
- Creation of service opportunities for the upliftment of society at large.

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.



4. Course Offered:

The Department presently offers the following courses:

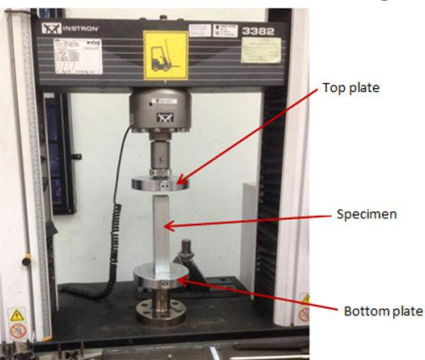
SL. No.	Program	Degree/Specialization	Intake	Year of Establishment
1	B.Tech	Mechanical Engg.	120	1956
2	M.Tech.	Machine Design & Analysis	18	1972
3		Production Engineering	18	
4		Heat Power Engg.	18	
5	Ph.D.	Mechanical Engineering	21 Awarded 35 contd.	2010

5. Placements Records:

- Placements Statistic 2018-19 - **90**
- Placements Statistic 2019-20 - **92**
- Placements Statistic 2020-21 - **116**
- Placements Statistic 2021-22 - **88**
- Placements Statistic 2022-23 - **111**
- Placements Statistic 2023-24 - **122**

• Laboratory Details:

The department has eight well-equipped laboratories with state-of-the-art equipment to cater to the needs of the industry and academia. A list of major equipment available with various laboratories are given below:

MATERIALS TESTING LABORATORY	
 INSTRON 3382 UTM (10 ton)	• INSTRON 3382 Universal Testing Machine (10 ton)
	• Universal Testing Machine (100 ton capacity).
	• Universal Testing Machine (40 ton capacity).
	• Dynamic Fatigue Testing Machine
	• Izod Impact Testing Machine
	• Rockwell Hardness Testing M/C



 Digital Rockwell Hardness Testing M/C	• Erichson Cupping Apparatus
	• Hydraulic Compression Moulding Machine
	• Ultrasonic Flaw detector
	• Magnetic crack detector
	• Magnetic Particle Inspection Equipment
	• Vicker's Micro hardness Testing Machine
	• Digital Rockwell Hardness Testing Machine

PRODUCTION LABORATORY	
 CAPSTAN LATHE	• Capstan lathe
	• Drilling machine
	• Cutting, grinding and polishing machine
	• Brazer welding Unit
	• Pioneer Lathe
	• Spinning lathe
 Kistler force dynamometer	• Kistler force dynamometer
	• Hydraulic press (02) no. 50 ton & 10 ton
	• Sand permeability tester
 Metallurgical Microscope	• Speedy moisture teller
	• Rapid sand washer
	• Universal sand strength machine
 Electro Discharge Machine (EDM)	• Sand rammer
	• Surface Roughness Measuring instrument
	• Metallurgical Microscope
	• Tubular Furnace
	• Electro Discharge Machine (EDM)



 Olympus Make Inverted microscope	• Olympus Make Inverted microscope
	• CNC Grinding Machine
	• K-type Kanthal Muffle Furnace
	• Brazing Furnace
	• Mechanical Stirrer
	• Hot air vacuum oven

THERMAL LAB	
 VCR Petrol Engine	• Natural Convection Experimental Set-up • Force Convection Experimental Set-up • VCR Petrol Engine • Refrigeration Tutor • Twin Cylinder 4S CI Engine • FAN Testing Apparatus • Impulse Steam Turbine
 Vapour Compression Refrigeration Unit	• Two Stage Reciprocating Air Compressor • Conduction Through Composite Wall • Emissivity Measurement Apparatus
 Single cylinder 4-S Petrol Engine	• AC Tutor • Ruston Diesel Engine • BMC Petrol Engine • Single Cylinder 4S SI Engine • Double Cylinder Double Acting Steam Engine

DYNAMIC AND VIBRATION LABORATORY	
Flywheel set-up	• Flywheel • Torsional Apparatus • Power Screw Lifting machine
 Universal Governor	• Winch Crab (Single Stat) • Worm and Worm Wheel • Epicyclic Gear Train • Band Brake Dynamometer • Universal Governor • Linear Variable Differential Transducer • Hartnell Spring Controlled Governor



METROLOGY LABORATORY

 Tool Maker's Microscope	• Surface Roughness Tester
	• Slip Gauge set-up
	• Optical Flat
 Tool Maker's Microscope	• Optical Microscope
	• Tool Maker's Microscope
	• HF PVD Diamond Coating set-up

MECHANICAL ENGINEERING DEPARTMENT LIBRARY



The Mechanical Departmental Library of VSSUT, Burla is one of the finest technical libraries in this university. It has been catering to the needs of one thousand students of undergraduates, postgraduates, research scholars, and faculty members and staff members. The library is well-equipped with modern facilities and resources. The library has always benefited from the Institute's culture, is a pioneer in adopting new technology, and is far ahead of many libraries in the Institute. The library manages knowledge, in print and ensures seamless discovery and access to these scholarly resources, and provides faculty, students, and staff with professional support to find, evaluate, manage, and use such resources. It provides a high-quality ambiance for both reflective and collaborative work and study. Its collection of about more than 1400 books, more than 500 journals and adequate amount of models.



- **Faculty Details:**

Name
Production Engineering Specialization

Specialization

PROFESSORS

1. Prof. Jaydev Rana

Experience: 27 Yr
Journal: 30
Conference: 24
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Email: jrana_me@vssut.ac.in

2. Prof. Saroj Kumar Sarangi

Experience: 18 Yr
Journal: 28
Conference: 08
Cell: 8260743222
Email: sksarangi_me@vssut.ac.in

ASSOCIATE PROFESSORS

3. Dr. Chitta Ranjan Deo

Experience: 19 Yr
Journal: 18
Conference:
Cell: 9437122252
Email: credo_me@vssut.ac.in

4. Dr. Punyapriya Mishra

Experience: 13Yr
Journal: 41
Conference: 30
Cell: 9438436223
Email: ppmishra_me@vssut.ac.in

5. Dr. Sarojrani Pattnaik

Experience: 15Yr
Journal: 38
Conference: 51
Cell: 8763270215
Email: srpattnaik_me@vssut.ac.in

ASSISTANT PROFESSORS

6. Dr. Sunita Singh Naik

Experience: 11Yr
Journal: 07
Conference: 03
Cell: 8763653380
Email: naik. Ssnaik_me@vssut.ac.in

7. Dr. Swagatika Mishra

Experience: 12Yr
Journal: 16
Conference: 12
Cell: 9861289179
Email: smishra_me@vssit.sc.in

8. Dr. Janaki Dehury

Experience: 10Yr
Journal: 15
Conference: 04
Cell: 9777076369
Email: dehuryjanaki.vssut@gmail.com



9. Dr. Pragyan Paramita Mohanty
Experience: 13Yr
Journal: 16
Conference: 12
Cell: 6370155813
Email: ppmohanty_me@vssut.com
10. Dr. Santosh Kumar Sahu
Experience: 03 Yr (Industry), 10 Yr (Teaching)
Journal: 30
Conference: 22
Cell: 9437383046
Email: sksahu_me@vssut.ac.in
11. Dr. Kiran Kumar Ekka
Experience: 01 Yr (Industry), 06 Yr (Teaching)
Journal:
Conference:
Cell: 9882464820
Email: kkekka_me@vssut.ac.in

Machine Design Specialization

PROFESSORS

12. Prof. Pusparaj Dash
Experience: 34Yr
Journal: 40
Conference: 15
Cell: 99 37 100213
Email: prdash_india@yahoo.co.in
13. Prof. Jyoti Ranjan Mohanty
Experience: 32Yr
Journal: 42
Conference: 13
Cell: 9437406971
Email: jrmohanty_me@vssut.ac.in

ASSOCIATE PROFESSORS

14. Dr. Sumanta Panda
Experience: 21Yr
Journal: 35
Conference: 15
Cell: 919439210888
Email: spanda_me@vssut.ac.in
15. Dr. Prasanta Kumar Pradhan
Experience:
Journal:
Conference:
Cell: 9438436223
Email: pkpradhan_me@vssut.ac.in
16. Dr. Padmanav Dash
Experience: 17Yr
Journal: 18
Conference: 14
Cell: 8093222010
Email: pdash_me@vssut.ac.in
17. Dr. Prakash Chandra Mishra
Experience: 21 Yr
Journal: 45
Conference: 11



Cell: 8917535445
Email: pcmishra_me@vssut.ac.in

ASSISTANT PROFESSORS

18. Mr. Debasish Tripathy
Experience: 10Yr
Journal: 02
Conference: 02
Cell: 8658764366
Email: dtripathy_me@vssut.ac.in
19. Mr. Johnson B Lakra
Experience: 10Yr
Journal: 15
Conference: 10
Cell: 7064401519
Email: jblakra_me@vssut.ac.in
20. Dr. Mihir Kumar Sutar
Experience: 17Yr
Journal: 33
Conference: 51
Cell: 8763270195
Email: mksutar_me@vssut.ac.in
21. Dr. Madhusmita Pradhan
Experience: 12Yr
Journal: 17
Conference: 20
Cell: 9776047247
Email: madhusmitapradhan_me@vssut.ac.in
22. Mr. Layatitdev Das
Experience: 14 Yr
Journal: 09
Conference: 14
Cell: 9861445881
Email: das.layatitdev@gmail.com
23. Mr. Shasanka Sekhar Dalai
Experience: 14Yr
Journal: 02
Conference: 05
Cell: 9439319661
Email: ssdalai_me@vssut.ac.in

Thermal Engineering Specialization
ASSOCIATE PROFESSOR

24. Dr. Aurovinda Mohanty
Experience: 23Yr
Journal: 13
Conference: 05
Cell: 9861355920
Email: amohanty_me@vssut.ac.in
25. Dr. Hrushikesh Barik
Experience: 16Yr
Journal: 10
Conference: 08
Cell: 9861378359
Email: Dr. hrushikeshbarik_me@vssut.ac.in

ASSISTANT PROFESSORS

26. Dr. Pandaba Patro
Experience: 15Yr
Journal: 32



27. Dr. Prabir Kumar Jena
Conference: 15
Cell: 9776152525
Email: ppatro_me@vssut.ac.in
Experience: 18Yr
Journal: 7
28. Dr. Debasmita Mishra
Conference: 9
Cell: 8114950554
Email: pkjena_me@vssut.ac.in
Experience: 12Yr
Journal: 15
29. Dr. Priyadarshi Tapas Ranjan Swain
Conference: 27
Cell: 9437159003
Email: dmishra_me@vssut.ac.in
Experience: 7Yr
Journal: 24
- Conference: 05
Cell: ptrswain_me@vssut.ac.in
Email: 9439000025

• **Non-teaching Staff Details:**

Sl. No.	Name	Designation	Mail id
1.	Mr. Bijaya Kumar Bhoi	Sr. Instructor	Bkbhoi65@gmail.com
2.	Mr. Susany Kumar Acharya	Sr. Instructor	Skacharyavssut1967@gmail.com
3.	Mr. Guptanchala Rath	Sr. Instructor	Gratha.vssut@gmail.com
4.	Mr. Jashi Bhusan Pradhan	Sr. Instructor	Jashibhusan94@gmail.com
6.	Mr. Sanjay Jagat	Mechanic	Sanjayjagat111@gmail.com
7.	Mr Suresh Chandra Nayak	Daftary	Sureshchandranayak1531968@gmail.com
8.	Mr. Bhabani Shankar Baril	Laboratory Attendant	bhasaba@gmail.com
9.	Mr. Maheswar Haripal	Cook	
10.	Mr. Dasharathi Sendria	Watchman	



DEPARTMENT OF PRODUCTION ENGINEERING



1. About The Department:

Department of Production Engineering was started in year 1996 with the name of Manufacturing Science and Engineering with an annual intake of 30. The name of this department was changed to Production Engineering in the year 2010 with increased intake of 60. The department was accredited by NAAC in 2016 and NBA in 2009. Presently, this department has 02 Professors, 06 Associate professors and 07 Assistant Professors having an exceptional track record in the field of teaching as well as research and publication. The department is running B.Tech. Course in Production Engineering, M.Tech. Courses (each with sanctioned intake of 18) with specialization Manufacturing Systems Engineering and Robotics & CAD/CAM and Ph.D. program Production engineering, better known as manufacturing engineering, encompasses diverse traits involved in the manufacturing of a product in smoothest and cost-effective way. It is a multidisciplinary domain that aims at imparting the elements like Manufacturing Technology, Engineering Sciences and Management Science to the students those pursuing bachelor degree in production engineering. It is expected that after successful completion of the B Tech course in Production Engineering the students will be competent enough to plan, design, develop, implement, operate, and control processes related to fast, economic and efficient production alongside providing suitable utilization of resources as well as obligatory maintenance. Production Engineering graduates acquire decent amount of job opportunities specifically in Production, Automation, Automobile, Mining, Textile, Oil and Refineries, Fertilizer as well as Software industries and Logistics and Transportation sectors. Moreover, they also have a lot of higher study options in several specializations namely Master of Engineering in Production Engineering, Master of Technology in Production Technology and Management, Master of Business Administration in Production Management, Post Graduate Diploma in Production Management.



Keeping in view the tremendous opportunity offered in Manufacturing Engineering domain, the M. Tech. Course with specialization Manufacturing Systems Engineering has been designed with an aim to educate manufacturing professionals those design, build and manage the competitive production systems. The program highlights the association between process engineering, system design and management aspects of manufacturing alongside product quality and process control. After successful completion of the course the students will be able contribute in designing, installing, monitoring and developing manufacturing equipment and assembly lines using computer technology and by employing a systematic approach to finance, methods, materials and technology.

This post graduate course in Robotics & CAD/CAM aims to impart knowledge and skills pertaining to computer aided design, computer aided manufacturing and robotics so as to enable the manufacturing professionals to use the computer-based tools, techniques and methods, both for designing a product and controlling the manufacturing process. This is one of the most on-demand skills set, specifically owing to the need of Automation and Robotics Engineering in recent manufacturing industries scenario. The department is having a very good track record in respect of employment of the students, higher studies as well as entrepreneurship. It has an excellent state of the art laboratory facilities dedicated for teaching and research.

2. Scope of Production Engineering

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.

- Promote academic excellence.
- Raise the level of knowledge, competence, and skills in manufacturing engineering.
- Implementation of new curriculum and innovative instructional methods, such as self-paced learning, problem-solving projects, training in industry.
- 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.



3. Vision & Mission

Vision

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

Mission

Production 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.

4. Course Offered:

The Department presently offers the following courses:

- B.Tech. in Production Engineering (NBA Accredited)
 - M.Tech. in Manufacturing Systems Engineering
 - M.Tech in Robotics & CAD-CAM
 - Ph.D. Programmed in major areas of Production Engineering
-
- **Placements Records:**
 - Placements Statistic 2019-20 - 33
 - Placements Statistic 2020-21 - 49
 - Placements Statistic 2021-22 - 34
 - Placements Statistic 2022-23 - 48

**6. Laboratory Details:**

Sl. No.	Name of the Lab.	Major Equipment's	Research Facilities
1.	Metal Cutting Lab.	• Engine Lathe • Polishing Machine • Tool Grinder • Acoustic analyzer • Tool Maker's Microscope	• Vibration analysis of cutting tool. • Noise analysis of cutting tool • Polishing of specimen
2	Metal Forming Lab.	• Shearing Machine • Hydraulic Bulging machine • Hydraulic press • Universal testing M/c	• Forward & Backward Extrusion • Hydraulic bulging & Deep drawing • Tensile, Compression & Bending Test.
3.	CAD Lab.	• CATIA • ANSYS • SOLIDWORKS • CAMWORK • DELMIA	Modelling & Simulation
4.	Virtual Mfg. Lab.	• Open CIM • I-GRIP • QUEST • SIMULINK • Workspace 5 • 3D Printer • 3D Scanner	• CIM Model simulation • Robot Workspace simulation
5.	Robotics & FMS Lab.	• CNC Lathe, Milling ,ASRS • Aristo robot • SCARA robot	FMS model simulation
6.	Metrology Lab.	• Profile Projector • Portable surface roughness tester • CMM	Measurement & marking of specimen dimension
7	Non-Traditional Machining Lab.	• Laser beam machining • USM Set up • EDM set up • AJM set up	Micromachining of metal and ceramics
8	Advanced Manufacturing Lab	• CNC EDM • Pin on disc friction wear Test RIG	Specific wear rate of composites
9	Material Characterization Lab	• Abrasion Test Rig • Micro-Vickers Hardness Tester • Surface Roughness Tester	Advanced materials characterization



(Advance Manufacturing Lab)



(Metal Forming Lab)



(Metal Cutting Lab)



(Robotics and Flexible Manufacturing Lab)



(CAD Lab)



(Material Characterization Lab)



• Faculty Details

PROFESSORS

SL No.	Name & Qualification	Specialization	Publication details
1	Dr. Debadutta Mishra B.Sc. (Engg.) (CET), M.Sc. (Engg.) (NIT, Rourkela) Ph.D (S.U.)	Production Engineering	Indexed journals: 32 Conference Proc.:11 Book/Book Ch.: 07 Patents:01
2	Dr. Debabrata Dhupal B.E. (Utkal University) M.E (Jadavpur University) Ph.D (Jadavpur University) DIBM (IGNOU)	Micromachining, Advance Manufacturing Process, RP &Non- traditional Machining, Metal Cutting.	Indexed journals: 39 Conference Proc.:10 Book/Book Ch.: 15 Patents: 02

ASSOCIATE PROFESSORS

SL No.	Name & Qualification	Specialization	Publication details
1	Dr. Kamal Pal B.E (Jadavpur University) M.E (BEC, Kolkata) Ph.D (IIT Kharagpur)	Production Engineering	Indexed journals: 23 Conference Proc.:06 Book/Book Ch.: 05
2	Dr. Arun Kumar Rout B.E (NIT Rourkela) M.Tech (IIT Kharagpur) Ph.D (KIIT University)	Mechanical Systems Design	Indexed journals: 17 Conference Proc.:12 Book/Book Ch.: 02 Patents: 01
•	Dr. Nirmal Kumar Kund B.Tech (IGIT, Sarang) M.Tech (IISc, Bangalore) Ph.D (IISc, Bangalore)	Mechanical Sciences	Indexed journals: 16 Conference Proc.:01
4	Dr. Pankaj Charan Jena B.E, M.Tech, (BPUT) Ph.D.(JadavpurUniversity)	Mechanical System Design	Indexed journals: 25 Conference Proc.:09 Book/Book Ch.: 17 Patents: 01
•	Dr. Sudhansu Ranjan Das B.E. (BPUT, Odisha) M.Tech. (KIIT University) Ph.D (NIT Jamshedpur)	Manufacturing Engineering	Indexed journals: 68 Conference Proc.:09 Book/Book Ch.: 17 Patents: 01



6	Dr. Trupti Ranjan Mahapatra B.E, (UCE, Burla) M.Tech. (KIIT University) Ph.D. (KIIT University)	Design &Manufacturing	Indexed journals: 42 Conference Proc.:21 Book/Book Ch.: 08 Patents:01
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ASSISTANT PROFESSORS

SL No.	Name &Qualification	Specialization	Publication details
1	Ms. Anisha Ekka B.Tech (CET, Bhubaneswar) M.Tech (IIT Guwahati)	Fluid and Thermal	Indexed journals: Conference Proc.:01 Book/Book Ch.: 01
2	Mr. Birendra Kumar Barik B.Tech. (VSSUT Burla) M.Tech. (NIT Trichy)	Manufacturing Technology	Indexed journals: 03 Conference Proc.:02 Book/Book Ch.: 01
3	Dr. Lipsamayee Mishra B.Tech. (BPUT) M.Tech. (VSSUT Burla) PhD (VSSUT, Burla)	Manufacturing System Engineering	Indexed journals: 07 Conference Proc.:02 Book/Book Ch.: 01
4	Mr. Premananda Ekka B.Tech (VSSUT, Burla) M.Tech (IIT, Guwahati)	Computer Assisted Manufacturing	Indexed journals: 01 Conference Proc.:02 Book/Book Ch.:
5	Dr. Sambeet Kumar Sahu B.Tech. (BPUT, Burla) M.Tech (VSSUT ,Burla) Ph.D (VSSUT, Burla)	Production Engineering	Indexed journals: 09 Conference Proc.:05 Book/Book Ch.: 06
6	Dr. Smita Padhan B.Tech. (VSSUT, Burla) M.Tech (NIT, Warangal) PhD (VSSUT, Burla)	Manufacturing Engineering	Indexed journals: 20 Conference Proc.:04 Book/Book Ch.: 02 Patents: 01
7	Dr. Sunita Sethy B.Tech (BPUT) M.Tech. (VSSUT Burla) PhD (VSSUT, Burla)	Production Engineering	Indexed journals: 09 Conference Proc.: Book/Book Ch.: Patents: 01



- **Non-teaching Staff Details:**

SL No.	Name	Designation	Mail id
1	Sri Prasanta Kumar Samal	Sr. Instructor	pks_immt@yahoo.co.in
2	Sri Debraj Pandey	Sr. Instructor	debraj.pandey@gmail.com
3	Sri Nilamani Suna	Lab. Attendant	nsuna561@gmail.com
4	Sri Suresh Ch. Bhoi	Lib. Attendant	scbhoi.1967@gmail.com
6	Sri Kruttibasa Nag	Mechanic	kruttibasanag1981@gmail.com
7	Sri Deepak Ku. Swain	Jr. Instructor	deepakkumarswain37@gmail.com
8	Sri Sarat Ch. Barik	Office Assistant	sarat15barik15@gmail.com



DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING



1. About the Department

The Department of **Metallurgical & Materials Engineering (MME)** was established in 2013. This Department is devoted to the design, creation and fundamental understanding of materials that are capable of enhancing the human experience. At present, the department offers a 4 years B.Tech. Course in Metallurgical & Materials Engineering with intake of 78 students. On completion of this course the student gains skills to get into a rewarding career in industry, academic and government sector. 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 current approach of our department is to develop each and every laboratory with multifunctional objectives. Presently, we are aiming to improve and share the knowledge of the different courses with better understanding and at the same time to integrate the research facility with consultancy. The department is developing liaison with research labs; mandating industry partners and extending entrepreneurship challenges and initiating the interdisciplinary research. M.Tech was added in the branch in the year 2020 with intake of 18 students in industrial metallurgy specialization and PhD was added in the year 2015. The department has introduced e-learning courses/lecture notes for students to understand the subjects in depth. This department has an idea to create internship programs for students of other universities/colleges by developing the various laboratories. The motivation of our department is to improve knowledge by interacting and pursuing research studies with mutual exchanging ideas.



2. Scope of Metallurgical & Materials Engineering

Metallurgical and Materials Engineering is a dynamic and expansive field that plays a crucial role in advancing technology and industry. This discipline encompasses the study of metals, alloys, non-metallic materials, and also focuses on their properties, processing, and applications. The scope of Metallurgical and Materials Engineering is broad, spanning various sectors including aerospace, automotive, energy, and electronics. Professionals in this field are integral to the development of new materials with enhanced performance characteristics, such as higher strength, improved corrosion resistance, and greater thermal stability. They are involved in the design and optimization of materials for specific applications and ensuring that they meet the demanding requirements of modern engineering projects. Additionally, Metallurgical and Materials Engineers work on recycling and sustainability, addressing environmental challenges by developing processes for material recovery and waste reduction. The discipline also plays a key role in research and innovation, contributing to advancements in nanotechnology, biomaterials, and advanced manufacturing techniques. With ongoing technological advancements and increasing emphasis on sustainability, the demand for expertise in Metallurgical and Materials Engineering is expected to grow, offering diverse career opportunities and the potential to make significant contributions to various industries. This field's versatility and its impact on both everyday products and cutting-edge technologies underscore its importance in shaping the future of engineering and manufacturing.

3. Vision & Mission

Vision :

To be a leading department in **Metallurgical and Materials Engineering** recognized globally for fostering innovation, excellence, and sustainability in the field. We aim to produce highly skilled engineers who excel in advancing materials science and technology, drive industry progress, and address global challenges through cutting-edge research and responsible engineering practices. To become a globally prominent department in the field of Metallurgical and Materials Engineering and a centre of excellence.

Mission:

- **Educational Excellence:** To provide a rigorous and comprehensive curriculum in Metallurgical and Materials Engineering that equips students with deep theoretical knowledge and practical skills. Our mission is to prepare graduates who are not only adept in current technologies but also capable of leading advancements and innovations in the field.



- **Research and Innovation:** To promote ground breaking research that pushes the boundaries of materials science and engineering. We are committed to developing new materials and technologies that contribute to industrial advancement, environmental sustainability, and improved quality of life.
- **Industry Collaboration:** To establish strong partnerships with industry leaders, fostering collaborative projects and internships that enhance practical learning experiences and address real-world challenges. We strive to align our educational programs and research with industry needs to ensure relevance and impact.
- **Sustainability and Ethics:** To advocate for and implement practices that prioritize environmental sustainability and ethical responsibility in all aspects of materials engineering. We aim to develop solutions that are both innovative and conscientious of their long-term effects on society and the environment.
- **Global Engagement:** To engage with the global academic and professional community through conferences, research collaborations, and knowledge exchange, thereby enhancing our institution's reputation and influence in the field of Metallurgical and Materials Engineering.

3. Courses Offered

The Department presently offers the following courses:

- B.Tech. in Metallurgical & Materials Engineering
 - M.Tech. in Industrial Metallurgy
 - Ph.D. Programmed in major areas of Metallurgical & Materials Engineering
-
- **Placement Records**
 - Placements Statistic 2019-20 - 30
 - Placements Statistic 2020-21 - 46
 - Placements Statistic 2021-22 - 55
 - Placements Statistic 2022-23 - 48
 - Placements Statistic 2023-24 - 54



- Laboratory Details



Physical Metallurgy and Heat treatment Laboratory)



(Powder Metallurgy Laboratory)



(Material Testing Laboratory)



7. Faculty Details

PROFESSOR			
SL No.	Name &Qualification	Specialization	Publication details
1.	Prof. 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)	Indexed journals: 22 Conference Proc.:32 Book/Book Ch.: 05
ASSISTANT PROFESSORS			
SL No.	Name &Qualification	Specialization	Publication details
1.	Dr. Dinesh Kumar Mishra B. Tech (I.G.I.T., Sarang), M. Tech (IIT Kharagpur), Ph.D. (VSSUT, Burla)	Computational Metallurgy, Nanostructured Materials Deformation, Multi-Component Alloy and Composite Design and Processing.	Indexed journals: 13 Conference Proc.:05 Book/Book Ch.: 04
2.	Mr. Gautam Behera B. Tech (I.G.I.T., Sarang), M. Tech (IIT Kharagpur), Ph.D. (IIT Kharagpur, Continuing)	Metallurgical and Materials Engineering, Sustainability, Extractive metallurgy and recycling, waste utilization and value recovery, physical metallurgy of power plant and automotive steels.	Indexed journal: 02 Conference: 04 Book chapter : 01
3.	Mr. Nilakantha Sahu B. Tech (VSSUT, Burla), M. Tech (IIT Roorkee) Ph.D. (VSSUT, Burla, Continuing)	Welding Metallurgy &Corrosion	Indexed journals: 02 Conference Proc.:01 Book/Book Ch.: 01
4.	Ms. Subhadra Sahoo B. Tech (I.G.I.T., Sarang), M. Tech (Jadavpur University) Ph.D. (VSSUT, Burla, Continuing)	Corrosion Engineering, Heat treatment of Steel, Mechanical Metallurgy	Indexed journals: 5 Conference Proc.:20 Book/Book Ch.: 2
5.	Dr. Renu Prava Dalai B. Tech (I.G.I.T., Sarang), M.Tech (N.I.T Rourkela), Ph.D. (IIT Kharagpur)	Thermomechanical Processing of steel and MMCs, Tribology and corrosion, Development of Alloys and composites by Powder Metallurgy,	Indexed journals: 19 Conference Proc.:06 Book/Book Ch.: 03



		Superalloys by DMLS, Heat and Mass Transfer of Nanofluids.	
6	Dr. Manila Mallik B. Tech (I.G.I.T. Sarang), M. Tech (NIT Rourkela), Ph.D. (IIT Kharagpur)	Electro-chemistry Lead-free solder, Nanoindentation Creep, Synthesis of Nano Powder, Bio-Materials	Indexed journals: 13 Conference Proc.:05 Book/Book Ch.: 04
7	Mr. Gourahari Behera B. Tech (N.I.T. Rourkela), M. Tech (IIT Kanpur) Ph.D. (VSSUT, Burla, Continuing)	High Entropy Alloys, Physical Metallurgy and Heat Treatment of Steel, Multicomponent Systems, Powder Metallurgy	Indexed journals:01 Conference Proc.:02 Book/Book Ch.: 01

8. Non-Teaching Staff Details

Sl. No.	Name of Staff	Designation
1	Ratnakar Sahoo	Senior Instructor
2	Dibya Pratap Naik	Senior Instructor
3	Chandan Kumar Pradhan	Mechanics Gr. III
4	Bishal Rao	Lab Attendant
5	Samir Nanda	Office Assistant (OS)
6	Prema Sindria	Peon



DEPARTMENT OF CHEMICAL & BIOSCIENCE

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. Although in its nascent stage, the state government has already sanctioned nine faculty positions to strengthen it. The branch of Chemical Engineering deals with the chemical processes for manufacturing of different products, designing of related equipment. The Chemical Engineering Department will try to impart quality education to the students in all areas especially in the modern broad areas such as nanotechnology, green technology, renewable energy, environmental engineering, biochemical engineering, process control, reaction engineering, transfer operations etc.

2. Vision and Mission of the Departmen

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 technologie

MISSION:

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



FACULTY PROFILES

Sl. No.	Name	Specialization
	<u>ASSISTANT PROFESSOR</u>	
1.	Dr. Krushna Prasad Shadangi	Ph.D. (IITG) Experience: Teaching (9.3 Y) Journal: 53 Conference: 17 Book Chapter: 16 Books: 03 Cell: 8260557770 Email: kpshadangi_chemical@vssut.ac.in
2.	Dr. Lipika Parida, Ph.D.	(IITKGP) Experience: Teaching (7.8 Y), Journal: 07 Conference: 05 Book Chapter: 03 Cell: 7978300426 Email: lparida_chemical@vssut.ac.in
3.	Dr. Nivedita Patel, Ph.D.	(VSSUT Burla) Experience: Teaching (9.3 Y), Journal: 05 Conference: 08 Cell: 9437550678 Email: npatel_chemical@vssut.ac.in
4.	Mr. Amit Kumar Behera,	M. Tech. (IITG) Experience: Teaching (9.3 Y), Journal: 04 Conference: 08 Book Chapter: 01 Cell: 9438632360 Email: akbehera_chemical@vssut.ac.in
	Mr. Veda Prakash, M. Tech. (IITR)	Experience: Teaching (9 Y) Journal: 02 Conference: 02 Book Chapter: 03 Cell: 7008035827 Email: vedaprakash_chemical@vssut.ac.in
5.	Mr. Anil Kumar Murmu, M.Tech. (IITKGP)	Experience: Teaching (7.8 Y) Journal: 01 Conference: 04 Book Chapter: 03 Cell: 7978729570 Email: akmurmu_chemical@vssut.ac.in



DEPARTMENT OF CHEMISTRY



About The Department:

The Department of Chemistry, VSSUT Burla was established in 1956, is one of the oldest Chemistry Departments in the State. The department has been engaged in providing highest level and quality of academic education. This department features highly qualified faculty member with expertise in teaching and research in frontier areas with significant research output in the form of patents, books, book chapters and research papers. In addition, the department also get funding for the research projects by various Government organizations and many consultancy from nearby industries. The department offers 2 year M.Sc. (Industrial & Organic Chemistry), 5 year Integrated M.Sc., and Ph.D. courses.

Vision:

- To prepare students to meet the ever-increasing demand of industries, research institutes, and teaching positions with analytical and practical skills.
- To equip the students with the conceptual and experimental tools required to understand the molecular world.
- To provide a basic understanding of chemistry and the scientific method that will enable the students to evaluate critically and make informative decisions on issues relating to science, technology, and society at large.

Mission:



- To develop the department as center of excellence in the frontier areas of chemical sciences.
- To develop the department as a nodal center of consultancy for solving the problems in the field of analytical chemistry, quantitative analysis, and pollution control.
- To encourage active participation of faculty members and students with industries for solving their day-to-day problems in chemistry and quality control.
- To encourage community engagement by providing students with teaching-learning and community based research opportunity.
- To collaborate with institutions of national and international repute.

Course Offered:

The Department presently offers the following courses:

- Master of Science in Chemistry with Specialization Organic Chemistry (Intake capacity:18)
- Master of Science in Chemistry with Specialization Industrial Chemistry (Intake capacity:18)
- Integrated Master of Science in Chemistry (Intake capacity:18)
- Doctor of Philosophy (PhD) in Chemistry

Laboratory Details:

Sl.No.	Name of the Laboratory	Major Equipment/Research Facilities
01.	UG Lab	• All chemicals to carry out experiments for B.Tech. and Int. M.Sc. Students • Pensky–Martens flash-point apparatus, <i>Redwood Viscometer</i>
02.	PG Lab	• All chemicals to carry out experiments of Organic, Inorganic, and Physical Practical for M.Sc. and Int. M.Sc. Students • p^H meter, Conductivity meter, UV-Visible



		spectrophotometer (Single beam), Colorimeter, Potentiometer. • Magnetic Stirrer, Weighing Balance, Sonicator, Centrifuge • Water Distillation Plant • Hot air oven, Muffle Furnace • Fume Hood
03.	Research Lab	• UV-Vis Spectroscopy • LCR Meter • Fourier Transform Infrared Spectroscopy • Thermogravimetry-Differential Scanning Calorimetry • Fluorescence Spectrophotometer • Dynamic Light Scattering • Atomic Absorption Spectroscopy • Pyrolysis Reactor, • Phase Contrast Microscope • Electrochemical Workstation, • Viscometer



Photographs of some Research Equipment



**Thermogravimetry-Differential Scanning
Calorimetry (TG-DSC)**



Atomic Absorption Spectroscopy (AAS)



**Fourier Transform InfraRed (FTIR)
Spectroscopy**



UV-Vis Spectroscopy



Fluorescence Spectrophotometer



Dynamic Light Scattering



Viscometer



LCR Meter



• **Faculty Members:**

List of Professors

Sl. No.	Name and Educational qualification	Specialization	Publication Details
01	Prof. Sarat Kumar Swain M.Sc., M.Phil., Ph.D. (Utkal University), Post-Doc (University of Akron, USA), FRSC (UK)	Organic Chemistry, Nanotechnology, Materials Science, Polymer Chemistry, Engineering Chemistry	Journals: 144 Patents: 02 Books: 07 Book Chapters: 50
02	Prof. Pravin Kumar Kar M.Sc., M.Phil. (Sambalpur University), Ph.D. (Delhi University)	Industrial Chemistry	- Journals: 24 - Books: 03 - Book Chapters: 06
03	Prof. Sukalyan Dash M.Sc., M.Phil., Ph.D. (Sambalpur University)	Organic Chemistry, Surface Chemistry, Reaction Kinetics, Organized Assemblies	Journals: 27 Books: 02 Book Chapters: 5
04	Prof. Priyaranjan Mohapatra M.Sc., M.Phil., Ph.D. (Utkal University), Post-Doc (S. Korea)	Inorganic Chemistry, Nanotechnology, Material Science	Journals: 40 Patents: 01 Books: 01 Book Chapters: 08

List of Associate Professors

Sl. No.	Specialization	Publication Details
05	Dr. Trinath Biswal M.Sc., M.Phil., Ph.D. (Utkal University)	Organic and Industrial Chemistry Journals: 47 Books: 01 Book Chapters: 38
06	Dr. Achyut Kumar Panda M.Sc., M.Phil., Ph.D. (NIT Rourkela)	Organic Chemistry Journals: 65, Patents: 02 Book Chapters: 07 Conferences: 27

List of Assistant Professors

07	Dr. Ramakrishna D. S. M.Sc. (University of Hyderabad, Ph.D. (Indian Institute of Chemical Technology)	Organic Chemistry. Organic Synthesis	Journals: 29 Book Chapters: 02
08	Dr. Aruna Kumar Barick M.Sc. (Utkal University), M.Tech. (CIPET), Ph.D. (IIT Kharagpur), Post-Doc (HYU, S. Korea)	Polymer Science, Engineering & Technology	Journals: 38 Book Chapters: 14
09	Dr. Bigyan Ranjan Jali M.Sc. (Utkal University), Ph.D. (IIT Guwahati)	Supramolecular Chemistry, Inorganic Chemistry	Journals: 57 Book Chapters: 15



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 program in Applied Physics, Integrated M.Sc. and Ph.D Programs. Research in the department ranges across the most challenging problems in Condensed Matter Physics, Materials Science, Liquid Crystals, Atomic, Molecular, Nuclear and Particle physics, Nanotechnology, Computational Physics of Complex Systems, Ultrasonic, and Plasma Physics. Many of the faculties have received various research grants from reputed funding agencies from central and state government (UGC, DRDO, DST Odisha, OURIP Odisha, Planning and Convergence Department, Govt. of Odisha). Till June 2024, nineteen students have been awarded Ph. D degree from the Department and twenty-three students are pursuing research work (Ph.D scholars and project fellows). The Department also offers various elective courses for both PG and UG in specific topics on emerging, and multidisciplinary areas.

2. Vision And Mission of the Department

Vision:

Department of Physics provides a creative and stimulating environment for the education of future generations of the Scientist and the Technocrats. The scientific works of faculties are connected with innovative teaching and learning processes along with competitive research activities. The Department envisions in creating synergy between Science and Technology along with industrial relevance with a mission for motivation towards Research and Development.

Mission:

- To impart knowledge of Physics via participative learning.
- To set up and develop state-of-art laboratories for teaching and research.
- To promote interdisciplinary and collaborative research.
- To make vital contributions via scientific achievements, and demonstrate a high level of competence in core areas of Physics and allied fields of Science & Technology.



3. Courses Offered

The Department presently offers the following courses:

- M. Sc. and Int. M. Sc. in Applied Physics
- Ph.D. Programme in cutting edge areas of Physics
- B.Tech. 1st Year - Physics Subject

4. Laboratory Details

Sl. No.	Name of the Lab	Major Equipment
1.	M. Sc. & Integrated M. Sc. Labs	1. Lattice Dynamics Kit 2. Fourier Analysis Kit 3. Hall Effect Set Up 4. Planck's Constant Kit 5. Energy Band Gap Setup 6. Photodiode Characteristics Kit 7. Optical Fiber Kit: Estimation of Numerical Aperture 8. Calculation of e/m by Thompson's Method 9. Michelson's Interferometer 10. B-H Curve Kit 11. LED & Laser Diode Characteristics 12. GM Counter 13. Curie Temperature Setup 14. Four Probe Method 15. Fermi Energy Kit 16. Stefan's Constant Kit 17. Solar Cell Apparatus 18. ESR Spectrometer 19. Young's Modulus by Searle's Method 20. Millikan's oil drop Experimental set up
2.	B.Tech. Lab	1. Determination of acceleration due to gravity 2. Barton's Apparatus 3. Determination of Thermal Conductivity with Lee's Apparatus 4. Capillary Rise Method



5. Newton's Rings Apparatus
6. Determination of Grating Element
7. Sonometer
8. Characteristics of BJT

3. Research Labs

Advanced Materials Laboratory

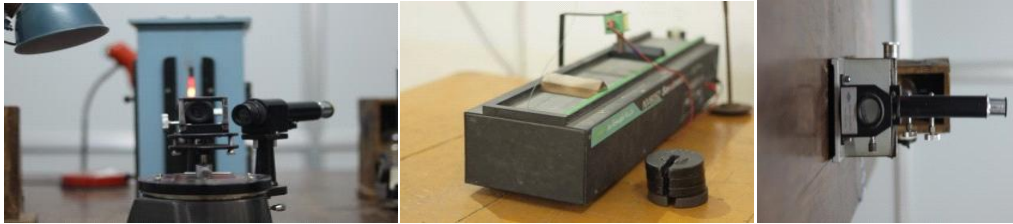
1. Muffle Furnace (up to 170⁰C)
2. Tubular Furnace
3. Planetary Ball Milling Machine
4. Hydraulic Pressure
5. Oven
6. Vibrating Ball Milling Machine
7. Sonicator
8. Density Measurement Kit
9. High temperature furnaces
10. UV-Visible spectrometer
11. Vector Network Analyser
12. Impedance analyzer
13. Thermal analyzer
14. PE loop tracer
15. LCR meter
16. Particle size analyzer

4. **Acoustics and Microwave Laboratory**

1. Multi Frequency Ultrasonic Interferometer
2. Water Circulating Bath
3. Digital Weighing Balance



B.Tech. LABORATORY



SPECTROMETER, SONOMETER, NEWTON'S RING, BIPOLAR JUNCTION TRANSISTOR, BARTON APPARATUS



BAR PENDULUM

M.Sc. & INT. M.Sc. LABORATORY



OPTICAL FIBER

HALL EFFECT

MULTIVIBRATOR



MULTIVIBRATOR

MICHELSON'S INTER

e/m by THOMSON'S B-H CURVE



7. Faculty Details

Sl. No.	Name & Qualification	Research Area	Publication details
<u>PROFESSORS</u>			
1.	Prof. M. R. Panigrahi Ph.D. (NIT Rourkela)	Experimental Condensed Matter Physics	Indexed journals: 45 Conference Proc.: 06 Book/Book Ch.: 03
2.	Prof. G. Nath Ph.D. (Ravenshaw University, Odisha)	Material Science Ultrasonic and Acoustics	Indexed journals: 70 Conference Proc.: 23 Book/Book Ch.: 03 Patents:02
<u>ASSOCIATE PROFESSORS</u>			
3.	Dr. A. K. Pattanaik Ph. D (IIT Guwahati)	Solid State Physics, Materials Science	Indexed journals: 23 Conference Proc.: 03
4.	Dr. S. Sengupta Ph. D (IIT Kharagpur)	Computational Physics	Indexed journals: 19 Conference Proc.:03 Book/Book Ch.:02
5.	Dr. S. K. Patri Ph. D (IIT Kharagpur)	Condensed Matter Physics, Materials Science	Indexed journals: 42 Conference Proc.:07 Book/Book Ch.: 04
<u>ASSISTANT PROFESSORS</u>			
6.	Dr. S. Behera Ph. D (VSSUT, Odisha)	Nonlinear Dynamics	Indexed journals: 17 Conference Proc.: 02
7.	Dr. P. L. Praveen Ph. D (Acharya Nagarjuna University, Andhra Pradesh)	Soft Matter, Liquid Crystals	Indexed journals: 88 Conference Proc.: 03
8.	Dr. S. S. Sarangi Ph. D (JNCASR, Bangalore)	Computational Condensed Matter Physics	Indexed journals: 12 Conference Proc.: 04 Book/Book Ch.: 02
9.	Dr. J. P. Singh Virdi Ph. D (Punjab University)	Nonlinear Dynamics	Indexed journals: 34 Conference Proc.: 07 Book/Book Ch.: 06
10.	Dr. J. Bhoi Ph. D (Sambalpur University, Odisha)	Nuclear Physics	Indexed journals: 39 Conference Proc.: 02 Book/Book Ch.: 01
11.	Ms. P. Naik Ph. D (continuing at VSSUT)	Condensed Matter Physics	Indexed journals: 01
12.	Dr. M. P. K.Sahoo Ph. D (IIT Kharagpur)	Experimental Condensed Matter Physics	Indexed journals: 32 Conference Proc.: 02



8. Non-teaching Staff Details

SL. No.	Name	Designation	Mail id
1.	Mr. Pratap Kumar Behera	Demonstrator	pkbehera244@gmail.com
2.	Mr. Suraj Pradhan	Demonstrator	pradhansurajyoyo@gmail.com
3.	Mrs. Nibedita Debata	Office Asst.	lotusdebata@gmail.com
4.	Mr. Pramod Kumar Meher	Lab. Attendant	pkmehervssut@gmail.com
6.	Mr. Malaya Ranjan Panigrahi	Lab. Attendant	bulupanigrahi1978@gmail.com



DEPARTMENT OF MATHEMATICS

1. About the Department

The department since inception in 1956, has always shared the vision of the University in striving for excellence in research and teaching activities and has succeeded in this endeavor 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.

Apart from the Ph. D. programmes in Mathematics, the department also offers masters programmes:

The vibrant academic environment is nurtured by strongly motivated faculty 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.

2. Mission & Vision

To foster in mathematical education and research, technical excellence, well poised between abstraction and application.

3. Faculty Details

Sl. No.	Name & Qualification	Specialization	Research Publications
<u>PROFESSORS</u>			
1.	Prof. Jayaprakash Panda M.Sc., Ph.D.	Fluid Dynamics, Numerical Analysis	Indexed Journals:28
	Prof. Susanta Kumar Paikray Ph.D (Mathematics), 2010, awarded from Berhampur University.		
2.	M. Phil. (Mathematics), 2000, awarded from Ravenshaw (Auto) college, Utkal University. M. Sc. (Mathematics) from Ravenshaw (Auto) college, Utkal University, 1998 having 1st class 1st.	Summability Theory, Fourier Series, Operations Research, Graph Theory.	Indexed Journals:108 Conference Proceedings:23



B. Sc. (Hons. Mathematics),
1996, Utkal University having 1st
class & Distinction.

ASSOCIATE PROFESSOR

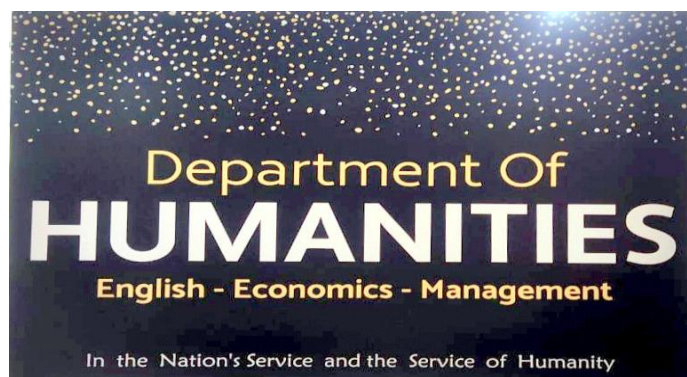
- | | | | |
|----|---|--------------------|---------------------|
| 3. | Dr. Mahendra Kumar Jena
M.Sc(Sambalpur University),
Ph.D (IIT Kanpur), PDF(IIT
Bombay, IHPC Singapore) | Numerical Analysis | Indexed Journals:14 |
|----|---|--------------------|---------------------|

ASSISTANT PROFESSORS

- | | | | |
|----|---|--|---|
| 4. | Dr. Saroj Kumar Padhan
BA(Sambalpur University),
MA(Sambalpur University),
M.Phil(Sambalpur University),
Ph.D (IIT Kharagpur) | Database and
Information Security | Indexed Journals:14
Conference Proceedings: 08 |
| 5. | Dr. Itishree Nayak
R.D.women's college, Utkal
university 1995-1998 Post
graduation- Utkal University,
Vani-Vihar 1998-2000 M.phil -
Utkal University ,Vani-Vihar.
2000-2001
Ph.D-Utkal University. | Fluid Dynamics, Heat
and Mass Transfer,
Numerical Analysis,
numerical solution of
partial differential
equation | Indexed Journals:13
Conference Proceedings:01 |
| 6. | Dr. Ashok Kumar Sahoo
(On Lien)
M.Sc., M.Phil., MTech.(Comp.
Sc.) Ph.D. (Utkal University). | Complex Analysis, Real
Analysis, Cryptography,
Theory of Computation | Indexed Journals:15 |
| 7. | Dr. Smrutiranjana Mohapatra
PhD (IIT Guwahati, 2005-2009),
PDF (IISc. Bangalore) | Interaction of waves
with submerged
structure(s), Water wave
problems with floating
elastic plate(s), Flows in
porous media | Indexed Journals:23
Conference Proceedings:01 |
| 8. | Mr. Niran Meher
On Leave for Ph.D. (IIT
Bhubaneswar), M.Sc. (IIT
Bombay) , B.Sc.(Hons) in Math
&Computing (IMA, Bhubaneswar) | Monotone Inclusion
problems, Variational
Inequality, and
Continuous Optimization. | Indexed Journals:01
Conference Proceedings:01 |



DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES



1. About the Department:

The Department of Humanities was founded in 1956. It is multi-disciplinary, and consists of three disciplines, English, Economics and Management. 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 behavioral sciences where the students unites application of scientific principles along with human, moral and social understanding.

The undergraduate courses taught by the Department faculty 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 humane issues involved in social change. The department has excellent opportunities and facilities for the pursuit of research and development. At present the department offers PhD programmes in various research areas in English and Economics. Placing a high premium on research output and outreach, the department faculties and research scholars consistently publishes academic articles, book chapters and books with national and international publishers.

Apart from the central level facilities, the Department has its own Library. Other infrastructure facilities are also made available to the students. The Department possesses a well-equipped Language Laboratory to practice personality development, presentation skills and speeches and listening skills to enhance their employability skills. For the fulfillment of its teaching and research goals, the Department has competent faculty members with a high degree of excellence who keep pace with the current developments in their fields of specialization.

Unlike faculty in more conventional universities, the members of faculties have the distinction of operating within a premier technological institute and spending time with every student who comes to VSSUT. It is in this respect that the teachers feel particularly well-equipped to contribute to a science, arts and ethics dialogue across cultural boundaries



2. Vision & Mission

Vision

- To develop an advanced comprehensive talent in the students of Humanities through Innovative and Sustainable academic programmes.
- To produce dynamic individuals who can train young minds to meet the challenges of the modern world.
- To conduct quality research and projects on various aspects of the Humanities and Social Sciences and collect educational statistics to develop information.
- To equip individuals with a contemporary set of skills to deal with life as effectively as possible and to nurture our students to understand the nature and needs of life.
- To motivate learners in the realization and actualization of his/her genuine capabilities so that they can be important contributors to a larger institutional mission.
- To encourage research-based approaches and analytical mindset in the area of Psychology, Economics, Political Science, History, Sociology, and Languages

Mission

The mission of the department is to offer courses that aim to strengthen the students' creative and critical thinking, problem solving abilities, Communication Skills and broaden intellectual perspectives, to understand and deal with social realities through continuous learning experiences.

3. Courses Offered:

The Department presently offers the following courses/Papers:

- B.Tech (English for Technical Writing, CERW Lab, Engineering Economics, Organizational Behaviors, Financial Management, Professional Ethics)
- Int. MSc. (English for Communication, Economics & Costing)
- PhD in Humanities & Social Sciences (English)
- PhD in Humanities & Social Sciences (Economics)

4. Laboratory Details:

Sl. No.	Name of the Lab.	Major Equipment's
1.	Language Lab.	1. Digital Board 2. Projector 3. Address system with microphone 4. Acousticanalyzer 5. ToolMaker'sMicroscope



5. Faculty Details

Sl. No.	Name	Qualification	Specialization	Publication details
1.	Dr. Jayaprakash Paramaguru	PhD (Utkal University) MPhil (Utkal University) M.A (Utkal University) B.A (Utkal University)		Indexed journals: 30 Conference Proc.: 14 Book/Book Ch.: 12
2.	Dr Ashapura Dash	B.A.(G.M.College Sambalpur) M.A.(Sambalpur University) Mphil.(Sambalpur University) MBA(Utkal University) PhD(Sambalpur University)	Linguistics, Indian Writings in English, Gendre Studies, Tribal Literature	Indexed journals: 14 Conference Proc.:03 Book/Book Ch.: 00
3.	Mr. Prasant Barla	MBA(IMIT, Cuttack) BSc.(Sambalpur University) NET-UGC	HRM, Service Quality, Emotional Intelligence	Indexed journals: 01 Conference Proc.:04 Book/Book Ch.:
4.	Dr. Prasanta Kumar Padhi	PhD (Utkal University) MPhil (Berhampur University) M.A (Utkal University) B.A (UtkalUniversity)	American Literature Indian Writing in English, Business Communication	Indexed journals: 26 Conference Proc.:02 Book/Book Ch.: 03 Books: 03
5.	Dr. Auro Kumar Sahoo	PhD in Economics (IIT Bhubaneswar) MPhil in Economics (Pondicherry University) M.A (Utkal University) B.A (Sambalpur University)	Micro Economics, Applied Econometrics, Natural Resources Economics	Indexed journals: 11 Conference Proc.: 02 Book/Book Ch.: 02 Working Paper: 02
6.	Dr. Chandramani	PhD in English (Berhampur University) M. Phil. in English (Berhampur University) M.A (Berhampur University), B.A (NagalandUniversity)	American Literature	Indexed journals: 18 Conference Proc.:08 Book/Book Ch.: 07



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