



Dr. P. K. Hota

Professor & Head, Department of Training & Placement

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY

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SINCE 1956

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VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY
FIRST TECHNICAL UNITARY STATE UNIVERSITY OF ORISSA
(Formerly University College of Engineering, Burla)

The Golden march continues...





The Burla Engineering College has the distinction of becoming the first engineering college in the state of Orissa. Its pioneering role in spreading engineering education and building skilled human resources has inspired other technical institutions and significantly contributed to the development of the state.

Dr. Manmohan Singh

Honorable Prime Minister of India

UCE, Burla has contributed immensely to building of a technically qualified manpower base in Orissa. Golden Jubilee is an occasion for self analysis and introspection and to set fresh priorities and work towards achieving them.

Dr. Rameswar Thakur

Former Governor of Orissa

UCE, Burla has carved a niche for itself in the realm of technical education in our country and its products wherever they have achieved professional excellence and brought laurels for this institution. A university status would provide them a broader platform to contribute to the society.

Mr. Naveen Patnaik

Honorable Chief Minister of Orissa

FROM THE PEN OF THE HEAD OF FAMILY

It feels honored to convey that ours is the only college of its type in the state to have successfully completed its 52 years of existence. We believe that technology is something which keeps on changing for the betterment of human civilization. Our college has always undergone technological upgradations in its curriculum and infrastructure to match shoulder to shoulder with the changing technology. This has resulted in creation of over 14,000 graduates and 2000 postgraduates and Ph. Ds who hold key positions in industries across the globe.

Prof. C. R. Tripathy
VSSUT, Burla

WORDS FROM THE TRAINING & PLACEMENT PROFESSOR

“We at VSSUT believe that just being practical does not help in all the technical aspects of life. One must master the foundation topics at the conceptual level and be able to implement them practically. We here make that possible by imparting the best technical knowledge to our students. Apart from the technical skills our students are made to face diverse situations which incorporate attributes like team building, leadership, etc. in them. Along with these skills they are made to practice entrepreneurial and managerial skills at the grass root level.”

Dr. P. K. Hota

Professor & Head
Dept. of Training & Placement
VSSUT, Burla

HISTORY

Veer Surendra Sai University of Technology or VSSUT is the history of engineering education in the state of Orissa. The first engineering college of Orissa, set up in 1956, 2 years after India's first IIT at Kharagpur has already celebrated her GOLDEN JUBILEE. VSSUT, formerly UCE Burla has a rich heritage of producing quality engineers who are spread around the world in top notch companies and institutes. The engineers from VSSUT have had a huge role to play in post-independence India from the building of dams and bridges to the construction and maintenance of power distribution systems. VSSUT is a dynamic institution with new streams being added over time to fulfill the promise of the young minds in the age of science and technology.



OUR MISSION

The mission of VSSUT is to impart technical education leading to an enriched holistic and wholesome technical experience as well as imbibing managerial aspects in the character of the students through participation in a culture outside the classroom and building team players.

“Continuing over 50yrs of excellency in technical education, UCE Burla is now upgraded to VSSUT, the first technical institute in Orissa to become an Unitary State University. Here we focus on the all round development of each student imparting the best technical knowledge along with values. After 4 yrs of education, the UCEians enter their respective job sectors in full fledge and lead from the front with confidence, innovation, responsibility and great enthusiasm.”

Prof. B. B. Pati

Dean (Planning & Co-ordination)





LIST OF COMPANIES :

ABB Ltd.	FACOR	L&T Info Tech	Tata Motors
ACC Cements Ltd.	GKW Steel	Mahindra & Mahindra	Tata Power
Aditya Birla Group	HCL	MBT	Tata Projects
Ashok Leyand	HP	MESCO	Tata Refractories Limited
Aricent	HUAWEI	Mindtree Solutions	Tata Sponge Iron
ATOS Origin	IBM	Naval Construction	Tavant
Avtec. Motors	I-Flex Solutions	NCR Systemedia	Tech Mahindra
BILT	I-Gate Solutions	OCL	Tega Industries
Birla Soft	IMFA	Orissa Polyfibres Ltd	Telcon
BOSCH	Indian Air Force	OSL	TVS Motors
Caritor	Indian Army	Polaris	Vedanta
CMC	Indian Navy	PPL	VSNL
Crompton Greaves	Infosys	Radiant Power	Wipro
CSC	International Auto Ltd.	Russula	
CTS	Jindal Stainless Steels	Sasken	
Cyndrake Solutions	Jindal Steels	Satyam Computers	
DCL	L&T (ECC)	Simplex Constructions	
ELMARC	L&T (ES)	Tata Consulting Engineers	
ESAB INDIA		Tata Consulting Services	

SUMMER COURSES

Practical interfacing of the theoretical knowledge acquired during the classroom learning is done by the provision to undertake various certified summer training courses at highly esteemed institutes as mentioned below, enables our students to win the race in the real life aspect of any problem.

NALCO	Ichapore rifle factory	ICICI information services
Pentasoft	Metro Rail corporation	Siemens Limited
IIT, Kanpur	BHEL	Uranium Corporation, India
Interim training range, CHP	RSP	STPI
OHPC	AIR	CTDC
NICCO corporation	IPCL	INDAL
Vizianagram steel plant	Bokaro steel plant	BSNL
BALCO	Novell Netware Limited	HAL
HMT Ltd	TATA Infotech	POWMEX Steel LTD
Hindustan Zinc Ltd	IDCOL	Hindustan Motors
Cochin Port Trust	OCL	Bhilai Steel Plant
South eastern railways	Maruti Udyog Ltd	Mumbai Port Trust
TISCO	MECON Ltd	TELCON
Bajaj Tempo Ltd	PPL	LARSEN & TOUBRO Ltd
NTPC	GE	NIIT
CQA	TATA Bearings	CESCO
GRIDCO	IB Valley Corporation	Ambuja Cements

THE SOFT EDGE:

Various soft skills development programs are being organized on long term as well as short term basis by various institutes like CORPORATE GURUKUL, MAFOI, IMS, TIME, CONFIDENCE FACTORY etc to polish our students with perfect corporate values.



CIVIL ENGINEERING

The inaugural branch of VSSUT Burla, with its rejuvenating teachers at the banks of great Hirakud dam promises a world full of, State-of-Art laboratories avid modern equipments creating a diaspora of world class civil engineers to build India and make the Alma-mater proud.

Civil engineers build the world's infrastructure. In doing so, they quietly shape the history of nations around the world. Most people can not imagine life without the many contributions of civil engineers to the public's health, safety and standard of living. Only by exploring civil engineering's influence in shaping the world we know today, can we creatively envision the progress of our tomorrows.



Student Projects

- Retrofitting of Reinforced concrete structure using Glass Fibre Reinforced Polymer (GFRP).
- Benchmarking of Irrigation.
- Soil Stabilisation by using Rice husk ash and Lime.
- Strength behaviour of Coir fibre reinforced soil with admixtures.
- Use of bamboo reinforcements



Laboratory Facilities

- Surveying Lab
- Geotechnology Lab
- Transportation Engineering Lab
- Concrete Lab
- Fluid Flow Lab
- Structural Engineering Lab
- Environmental Engineering lab
- CAD Lab

Courses Offered

- Mechanics of Solids
- Fluid Mechanics
- Geology
- Structural Analysis
- Concrete Structure Design
- Steel Structure Design
- Geotechnology
- Water Resources Engineering
- Transportation Engineering
- Surveying
- Environmental engineering
- Fluid Dynamics and Hydraulic Machines
- Building Materials and Construction
- Pre-stressed Concrete Design
- Estimation and Evaluation
- Construction and management





ELECTRICAL ENGINEERING

The Department of electrical engineering, established in 1956 is one of the oldest pillars of this esteemed college. While retaining its strength in traditional areas of engineering the department grew with time and established new areas of training & research in electrical engineering. The main goal of this department is to establish tie-ups with institutions of national and international repute and to keep in tune with ever increasing demands of technologies.

Laboratory Facilities

- Network Devices Lab
- Analog and Digital Electronics Lab
- Electrical Machines Lab
- Microcontroller and Devices Lab
- Instrumentation and Control Lab
- Power Electronics and Devices Lab
- Power System Lab
- Advanced Power System Lab
- High Voltage Lab
- Embedded System/DSP Lab
- Computation Lab
- Digital Signal Processing Lab



Projects undertaken by students

- AI, Fuzzy, Neural, Genetic algorithm based projects
- SCADA, PLC Microcontroller based projects with real time applications
- Simulation of various power conditioner based circuit.
- Software projects in Matlab Environment
- Development of real time control systems and embedded systems
- Soft computing application

Courses Offered

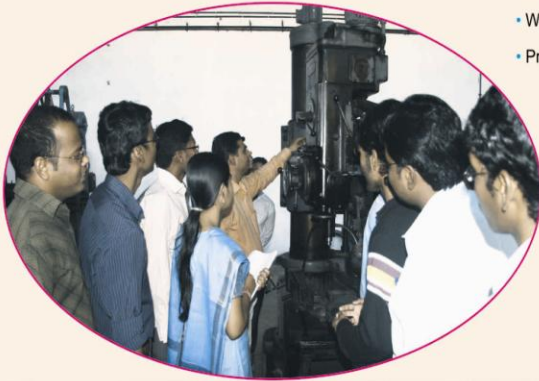
- Network Theory
- Electrical Machines
- Power Generation, Transmission and Distribution
- Power System Operation and Control
- Control System Engineering
- Analog and Digital Electronics
- Microprocessor and Microcontroller
- Power Electronics
- Electromagnetic theory and waves
- Digital Signal Processing
- High voltage and Insulation Engineering
- VLSI Design
- Electrical Drives
- Non Conventional Energy Sources
- Communication System Engineering
- Soft Computing
- Computer Networks
- Mobile Communication
- Computer System Architecture



MECHANICAL ENGINEERING

The importance of studying mechanical engineering is to have a first hand knowledge about what is all happening in our surroundings. Be it a child throwing a ball, cycling, lighting match stick or combing hair.....everywhere mechanical laws prove their existence.

Our seasoned mechanical engineers are groomed to suit to any level of mechanical complexity which has resulted in augmentation in their demand at industry interface . With increase in mechanical aspects, such demands always tend to increase.



Laboratory Facilities

- Hydraulic machines lab.
- Dynamics and Vibration lab.
- Thermal Engineering lab.
- Material testing lab.
- Heat Transfer lab.
- Non conventional machines lab.
- Solar Energy Park
- FMS and Robotics lab.
- CAD/CAM lab.
- Workshop.
- Production engineering lab.



Courses Offered

- Mechanical Vibration
- Simulation , Modeling & Control
- Computer Aided Design / Automobile Engineering
- Refrigeration & Air Conditioning
- Metrology, Quality Control & Reliability
- Internal Combustion Engine & Gas Turbines
- Heat Transfer
- Machine Design & Machine Dynamics
- Product Design & Product Tooling
- Physical Metallurgy
- Engineering Mechanics
- Mechanics of Solids
- Advanced Thermodynamics
- Fluid Power Engineering
- Production and Operation Management
- Manufacturing Science and Technology

STUDENT PROJECTS

- Study of ice plant
- Design of Pelton wheel turbine
- Electrical overhead transmission crane
- Design of centrifugal pump
- Solar Energy system





Student Projects

- Optimization of process parameter of Laser driller using Neural networks.
- Microstudy of Metals.
- Workspace optimization of a 3R robot.
- Study of Powder Metallurgy.
- Agent based architecture and using multiple agents in FMS.

Laboratory Facilities

- Non – Traditional Machining Lab.
- Computer Application Lab.
- Metal Machining & Machine Tool Lab.
- Virtual manufacturing Lab.
- Robotics & Flexible Manufacturing Lab.
- Material Testing Lab.
- Metallography Lab.
- Production Lab.



Courses Offered

1. Automation and Numerical Control Machines.
2. Robotics & Flexible Manufacturing Systems.
3. Computer Integrated Manufacturing (CIM).
4. Non-Conventional Machining.
5. Material Science & Technology.
6. Microprocessor and Microcomputers.
7. Finite Element Method.
8. Quality Management, Reliability & Maintenance.
9. Production & Operation Management.
10. Production Planning & Inventory Control.
11. Microprocessor & Microcomputers.
12. Introduction to Physical Metallurgy.
13. Advanced Production Technology.
14. Metrology & Inspection.
15. Manufacturing Analysis.
16. Simulation, Modelling & Control.

MANUFACTURING SCIENCE & ENGINEERING

This department with its roots from Mechanical Engineering was introduced to facilitate the metamorphosis of the word towards advanced manufacturing. Also known as Production Engineering, it is comparatively young but has laid its strong foundation in a stupendous fashion. Manufacturing is the backbone of any industrialized nation and a sound economic health has a major contribution from manufacturing sector. Advanced Manufacturing Technology coupled with computer controlled processes is the present day need of the manufacturing industries. The versatility of the produced engineers to work for production divisions, automotive sector, power units, steel plants, drilling assignments, construction projects, research & development and other areas of industrial automation makes it unique in itself.





Courses Offered

- RDBMS
- Design and Analysis of Algorithms
- Automata Theory
- Computer Organization and Architecture
- Software Engineering
- Operating System
- Computer Networks
- Compiler Design
- Artificial Intelligence
- Internet and Web Technology
- Embedded Systems
- Mobile Computing
- Network Security
- Discrete Mathematics
- Computer Graphics and Multimedia

COMPUTER SCIENCE ENGG. & INFORMATION TECHNOLOGY

With high profile faculties, modern lab facilities and quality courses offered this department produces some of the most dynamic, eligible and efficient technocrats who pass the vision to steer the world towards new horizon.

Laboratory Facilities

- RDBMS Lab
- Computer Organization Lab
- OS Lab
- IWT Lab
- Compiler Design Lab
- Microprocessor Lab
- Network System Lab
- ADA Lab
- System Programming Lab
- Software Engineering Lab
- VLSI Lab

Projects undertaken by students

- Distributed multicasting and Steiner tree.
- Delay variance of Multicast tree using DDVC algorithm.
- Swarm intelligence.
- Amortized efficiency of list update and paging rules.
- Delay variation Steiner tree generation using simulated algorithm.
- Multicast routing using simulator annealing.
- Captcha, the test of humanity.
- Bug tracking system.
- DNA pattern matching.
- Lossless data compression.
- Development of web based mail client.
- Evolution of TCP/IP protocol.
- Colour simulation software.

ELECTRONICS AND TELECOMMUNICATION

Keeping in view the need of the day, this Department offers quite an attractive & up to-date 4 year B.Tech Degree course. The well-placed alumnus in important national and international organizations are live testimony to this department. Research on various projects has established a dignified reputation for the department.

Laboratory Facilities

- Basic circuit's lab.
- Microwave lab.
- Communication and Fiber Optics lab.
- Digital electronics lab.
- Instrumentation lab.
- Machine Intelligence lab.



Students Projects:

- Processor with 3 bit ALU using VHDL
- Image processing-Object following Locomotive
- Channel equalization using various adaptive algorithms
- Automated Home appliance control and security with IVRS.
- Mobile controlled locomotives and appliances
- Project on TELEMATICS
- Distributed Control of Manufacturing Science using local Operating network.
- Building cognition for Intelligent robots



Courses Offered

- VLSI Design
- Mobile Communication
- RADAR Communication and Engineering
- Digital Image and Speech Processing
- Digital Signal Processing
- Computer Networking
- Microwave Engineering
- Electromagnetic Theory
- Advanced Digital and Analog Communication
- Instrumentation Engineering
- Physics of semiconductor

POST GRADUATE AND PH. D PROGRAMMES

The college offers post graduate programs in a number of specialized fields which covers advanced topics like Image compression, Neural Networks, laser application, fuzzy logic, mobile communication, etc. The excellent infrastructural facilities have helped the institute sustain its Ph. D. programmes in various departments successfully over the years, thus producing numerous Ph. D. scholars.

"The cream of Orissa are collected in this college of remarkable history and great personalities. The recognition that its alumni garner is all because of the well-laid foundation of the academic body and strong value system. VSSUTians are not dull-boy Jacks but are quite capable of meeting out any responsibilities that are shouldered on them. Seminars, symposiums make us adept at every skills that the corporate world looks for today. We are proud of maintaining the heritage that the founding fathers bestowed upon us."

Prof. Debudutta Mishra
HOD, Mfg. Sc. & Engg.

THE MCA DEPARTMENT

The MCA curriculum is structured precisely to impart the cutting edge technical education in the field of software engg., advance microprocessor concepts and other contemporary programming languages. Apart from that the college is equipped with the latest computers and state of art laboratories to cater the needs of modern day technology. A galaxy of eminent faculties and staffs backed by decades of dedication and expertise play a pivot role in sharpening and stimulating the young minds to confront the future.

STUDENTS PROJECTS:

- Structure schema base contain authorising interface for wipro collaborative digital exchange frameworks.
- Work flow management system.
- Cargo management system.
- Core banking networking.
- Data Wirehousing.
- e-learning.
- Railway reservation system.

MCA PROGRAMME INCLUDES:

- Structured programming using 'C' language.
- OOP concept using C++ & JAVA.
- Client server programming using J2EE, CGI/PERL,HTML & XML.
- Scripting language like JAVA Script.
- DBMS concepts using ORACLE & PL/SQL.
- Operating System.
- Information System Design (ISD).
- Computer System & Architecture (CSA).
- Microprocessor & Assembly language programming.
- Computer networks.
- Analysis & Design of Algorithm (ADA).
- Software engineering.



FACULTY

- 64 Ph. D. holders, highest in Orissa.
- Hailing from the top notch technical community of India, the faculties form the pillars of VSSUT.
- The formidable faculty at VSSUT boasts of a unique blend of teachers both from orthodox and modern backgrounds. They collaborate with colleagues and companies, government and nonprofit to develop novel resources.
- Our teachers contribute around 150-200 papers on an average per year to organizations like IEEE.
- Winners of various international and national awards and honors like Vijay Shree and Sir Arthur Cotton Memorial Prize.
- They have been ranked within 1000 of world's best technical teachers.

"We are proud of being the only technical institute in Orissa that has been bestowed upon with Unitary State University status. This college of 53 years has time and again been the shining star in the laurels of Orissa's technical history. The course structures that encompasses a well balanced mix of fundamentals and advanced concepts make VSSUTians skilled in every walk of life. We also encourage managerial skills by conducting Technical and Managerial festivals which in itself give the students firm grounding in all things creative."

Prof. S. K. Sar

HOD, Mech. Engg. & DEAN Students' Affairs



STUDENTS...

The students enrolled in VSSUT are some of the brightest minds of the state. The top performers in the Orissa JEE prefer VSSUT because of its rich technical experience.

- Top notch students as it is the only UNITARY UNIVERSITY of the state and one of only FOUR in the India.
- One among 3 colleges recognized by SUN Microsystems for its Campus Ambassador Program.
- Students have shown their worth by winning competitions in Technical festivals organized by various IITs and NITs along with winning internship with companies such as GE.
- A good number of students qualify for competitive exams like GATE, CAT, MAT, XAT, GRE etc.

"VSSUT students interact extensively with faculty, staff, alumni and global companies and organisations to create an involved, vibrant community. Wherever you are from, VSSUT's coherent system, learning teams, and student activities help you mold your personality for the future."

Nihar Sarangi
SUN Campus Ambassador
6th Semester, B. Tech



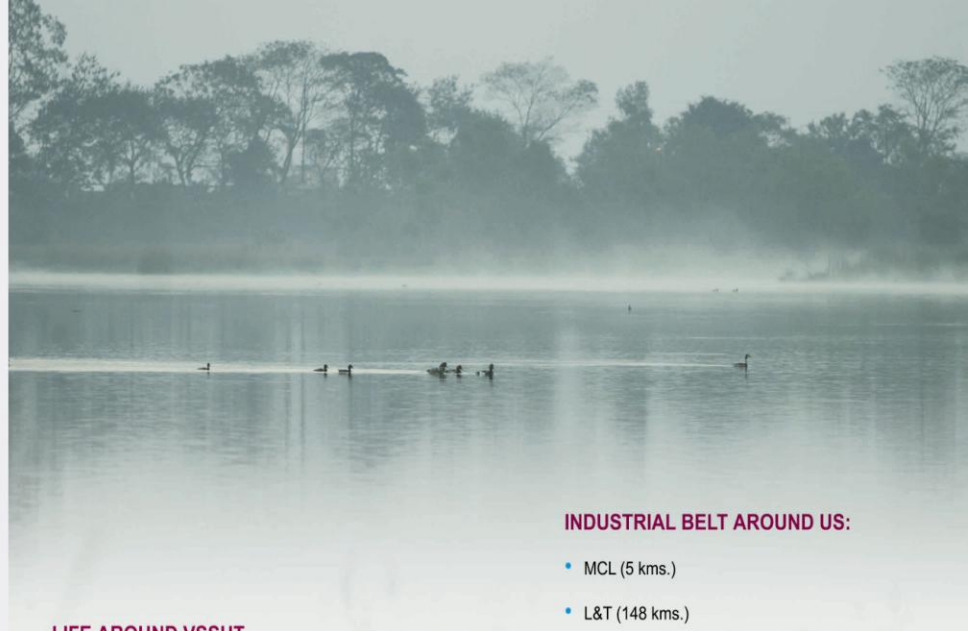
COLLEGE PROFILE

First engineering as well as autonomous college in Orissa.

- Upgraded to the status of UNITARY UNIVERSITY and is one of only FOUR technical unitary universities in India.
- Celebrated its Golden Jubilee in April , 2006.
- Ranked among the best 50 technical institutes in India according to IndiaToday.
- Produced more than 15000 graduate engineers, 2000 PG engineers, and good number of Ph. Ds.
- Possesses more than 500 acres of land with exquisite facilities.
- Was in consideration for being upgraded to an IIT along with six other colleges from all over India.
- Ranked thirteenth for receiving aid from the Japanese government.

LIBRARY

- Largest library in East zone with a capacity of more than 50,000 books, international journals and magazines.
- Fully furnished e-library facilities. Reading hall with a capacity of 120 students fully air conditioned and with internet facilities.
- Member of Indian National Digital Library in Engineering Science and Technology due to which online access of journals of ASCE, ASME, and IEL is available. Access to JET(J-Gate Engineering and Technology) under auspices of INDEST.
- Archives of IEEE journals since 1956.



INDUSTRIAL BELT AROUND US:

- MCL (5 kms.)
- L&T (148 kms.)
- HINDALCO (10.2 kms.)
- NALCO (176 kms.)
- BHUSAN STEEL(42 kms.)
- NTPC (192 kms.)
- VEDANTA ALUMINA(55.6 kms.)
- OPGC (31 kms.)
- INDAL (15kms.)
- TRL(71kms.)
- OHPC(3 kms.)

LIFE AROUND VSSUT...

Hirakud Dam : The longest earthen dam of the world, stretching over a distance of 5.06 kilometers, that belts the mighty Mahanadi river lies only 6 kilometers from VSSUT.

Chiplima : A place of scenic beauty and nature's elegance, is only a 15 kilometer ride from VSSUT.

Huma : (25 KM from VSSUT)Famous as the abode of Lord Siva, Huma contains the lone leaning temple of Orissa and also famous as a scenic spot of great excellence. The river Mahanadi flowing close by abounds in fish (Kudo fish) which are never caught. The popular belief is that they belong to Lord Vimalaeswar.

Gudguda Falls : A pristine getaway from the monotonous timetable, this handicraft of nature is only 100 kilometers from Burla.



LIFE IN VSSUT...

VSSUT, Burla hosts a set of 9 fiestas every year. All these can be summed up under the following.

CLUBS:

- Students Cultural Association
- Students Dramatic Association
- Robotics Society
- The Literary Association
- The Technical Association
- The Audio Visual Club
- The Art and Photography Club
- The Athletic Club
- The Music Club
- The Engineering Society
- The Common Room Society
- The Social Service Guild
- NSS

These clubs and their fiestas involve active participation of more than 1400 students in the field of organizing, performing as well as conducting which not only sharpens the competitive edge of students as engineers but also polishes their managerial skills in their four year stay in VSSUT.

TECHNICAL FESTIVALS

VSSUT hosts a series of national level technical festivals for all the Engineering disciplines which gives the students an edge in their respective disciplines that incorporates a blend of innovation combined with organizing abilities

SPORTS

The passion of sports subdues all other emotions in VSSUT. The best of team spirit and sportsmanship is seen on the battlefield. VSSUT is also the organizer of ICSM (Inter College Sports Meet), a national level sports meet with events volleyball, cricket, badminton, basketball and table tennis.

FACILITIES FOR SPORTS

- A mini stadium
- A lawn tennis court
- 4 volleyball courts
- An indoor badminton court
- A basketball court
- Each hostel has individual badminton courts and table tennis boards
- A gym with latest health equipments

OTHER FACILITIES

- Solar energy park
- I.S.T.E. chapter
- SPIC MACAY chapter
- Yoga center
- Gymnasium
- Multimedia development center
- Guest House
- E-Learning Center
- E-library
- NCC,NSS,SSC,RSS etc.

VSSUT boasts of possessing over 700 computers which is nearly at "a man –a machine" proportion.

- Windows Lab : 100 computers
- Internet Lab : 50 computers
- UNIX Lab : 50 computers
- Each Department : 30 to 50 computers



CONTACT DETAILS :

The placement cell will be more than happy to hear from you. We have developed an integrated system to smoothen the process of recruitment.

It starts here:

- Invitations are accompanied by a specially designed job announcement form (JAF) .
- Concerned organization / companies fill the job announcement form(JAF) and mail it to the Dept. of T&P, VSSUT Burla along with possible dates for Pre Placement Talks.
- The JAF is made available to the students online along with other relevant information provided by company.
- The placement cell appoints date for PPT and Campus Interview which are negotiable.
- All care for the deputation of the company officials is taken by the Training & Placement Department thereafter.

REACHING US :

VSSUT Burla lies at the foot of Hirakud Dam at the intersection point of NH-5 and NH-40

Nearest Railway station : Hirakud station (3 kms from VSSUT)

Main Railway station : Sambalpur station (10 kms from VSSUT)

Nearest Airport : Bhubaneswar airport, Raipur airport

Nearest Helipad : M.C.L. Helipad (3 kms from VSSUT)

RAILWAY SERVICES :

Intercity Express : Bhubaneswar to Sambalpur(Daily)

Tapaswini Express : Puri-Sambalpur-Rourkela(Daily)

Ispat Express : Howrah to Sambalpur

Hirakud Express : Sambalpur to Nizamuddin

Bhubaneswar to Sambalpur - 4 Hours

Howrah to Sambalpur - 10 Hours

Rourkela to Sambalpur - 2 Hours

CONTACT STUDENT COORDINATORS :

Saurav Panda Phone: +91-9937339005

Sanket Mishra Phone: +91-9437677524

N.Seetharaman Phone: +91-9861448018

Satellite's eye at VSSUT



Burla placed in Western Orissa map...

