



# **SELF STUDY REPORT**

**FOR**

**2<sup>nd</sup> CYCLE OF ACCREDITATION**

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY**

**PO- ENGINEERING COLLEGE, BURLA DIST- SAMBALPUR, ODISHA  
768018**

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

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Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**April 2024**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

The Veer Surendra Sai University of Technology (VSSUT) Odisha was formed by government of Orissa Act 9 of 2009 by converting from University College of Engineering (UCE), Burla to a non-affiliating Unitary state University. This State Government University is also recognized by University Grants Commission (UGC), New Delhi vide UGC letter No.. F.9-36/2009(CPP-I) dtd.5th Jan 2010. The University is empowered to award degrees as specified by the UGC under section 22 of the UGC Act. The University has been declared eligible to receive central assistance under Section 12B of the UGC Act vide letter F.No.9-36/2009(CPP-I/PU) dated 8th November, 2012.

Situated at the foothill of world famous Hirakud dam, established on 12th Aug. 1956, at Burla in the name of University College of Engineering (UCE), is the first engineering college for technical education in the state of Odisha. The primary objective was to establishing the engineering college is to produce engineers who can manage Hirakud Dam. It was started with 60 students enrolling into 3 branches, namely the Civil Engineering, the Electrical Engineering and the Mechanical Engineering with an intech of 20 students each. The academic programmes available at VSSUT are: B.Tech, B.Arch, M.Tech, BTech & MTech dual degree, M.Sc., Integrated MSc, MCA and Ph.D.

Admissions to various B.Tech. and B.Arch. programmes are done from the merit list published by JEE Main. Admission to various M.Tech. , M.Sc. and M.Phil programmes offered are conducted by University. However, the students to B.Tech (LE) as well as MCA Programme get admitted through Orissa Joint Entrance Examination(OJEE) conducted by Government of Odisha. All the engineering courses of the University are AICTE approved. The University has a QIP Centre for Ph.D. programmes in engineering disciplines. The University admits full time Scholars to the Ph.D. Programmes in Engineering disciplines as well as in the field of Applied Sciences.

More than 50 reputed National and Multinational companies visit VSSUT for campus recruitment annually through the Training and Placement section. 100% of the students secure job offers before they complete their programme of studies and leave the University. The students of this University are also doing extremely well in national level examinations like GATE, CAT, MAT, XAT, GRE, TOEFEL, IES and other competitive examinations.

### **Vision**

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

### **Mission**

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

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

## **1.2 Strength, Weakness, Opportunity and Challenges(SWOC)**

### **Institutional Strength**

1. First technical institute in the state of Odisha
2. Noncompromise in academics since last 66 years
3. Strong and worldwide Alumni network of more than 40 thousand alumin
4. Performing students – beating IIT / NIT students in national-level competitions.
5. Adequate quality faculty members with more than 70% doctorates.
6. Identified as the first inovative centre by ISRO
7. The institute impacting outreach skill developement programme
8. The instutute having autonomous status since 1992
9. Institute is fully residential for studnts and teachers in a single campus
10. Students of this institute alwas achieve a visible position in different national level competetions.

### **Institutional Weakness**

1. Inadequate, aged Infrastructure
2. Outdated Lab equipment, software
3. Absence of specialized R & D labs
4. Inadequate IPR, Sponsored Research & Consultancy
5. Inadequate student recreation facility
6. Weak academic Outreach

### **Institutional Opportunity**

1. Massive industrialization in Odisha asking for more quality engineers
2. ~ 300 Acre land for expansion
3. Surrounded by institutes & industries
4. Attitude of students toward rocketry, product development, entrepreneurial spirit, incubation

### **Institutional Challenge**

1. Inadequate funding for an institute as vast in infra & student base as IIT, or NIT - leading to fast degradation
2. Peer institutes growing in size
3. Reluctance of companies to visit a remote place like Burla for Placement

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

The VSSUT offers B. Tech in 10 programs, 05 Years B.Tech & M.Tech Dual Degree, B. Arch. MCA, M. Tech in 19 specializations, M.Sc, and integrated MSC in Physics, Chemistry & Mathematics, Ph.D. in 16 disciplines. The curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs). Number of Programmes where syllabus revision was carried out during the year to implement in AY 2019-20. Elective subjects from Department as well as open electives from other departments are introduced in the revised syllabus effective from AY 2019-20. Some of the courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year in the curriculum are organizational behaviour, etc. and some courses by training and placement for digital skilling such as RedHat etc. Number of new courses introduced of the total number of courses across all programs offered. To integrate crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum, the curriculum of all the programs offered by the university contains

1. Induction Program and participation in clubs and societies
- 2.NSS/NCC/Yoga
3. Essence of India Traditional Knowledge/Environmental Sciences
- 4.Summer Internship/ Training/ Project
- 5.Professional Ethics, Professional Law & Human Values
6. Financial Management, Costing, Accounting, Balance Sheet & Ratio Analysis.

At department level, remedial classes are held for slow learners in regular intervals and their progress is monitored by faculty members. The advance learners are given challenging assignments. They are also introduced to modern and latest open source softwares which they can use to improve their skills. Further, special talks by eminent personalities are held regularly to encourage and motivate students for challenging tasks. The ratio of number of research projects to number of students undertaking field projects / research projects / internships is 1:3. In addition, faculty members encourage students to develop new ideas which can be patentable and they help them to file patents in due course.

### Teaching-learning and Evaluation

VSSUT uses student-centred learning methods. Teachers use the smart boards to disseminate knowledge. Instructors use google form to take quiz test and submissions of assignments.

COs are written following latest OBE principles and Bloom's taxonomy. The university has developed an excel based template for computation of COs, POs which is calculated at the end of each semester from marks obtained by students in various components. The attainment level is then utilized to improve the pedagogy in the upcoming semesters. The faculty members update themselves by attending short term courses. A number of

innovative teaching methods have been adopted for effective teaching like brain storming, group discussion, technical quiz, role play, seminars, industrial visits, case study method of teaching, problem solving session, field study, internship, use of NPTEL and language skills. A number of student clubs further enhance experiential learning, participative learning and problem-solving methodologies. Syllabus is made available in the University website for all the courses. The faculty member prepares a lesson plan which is monitored by the HOD. The lecture note is uploaded in the University website for the benefit of the students. The academic audit is conducted every year and reports of the same are submitted to the BOM.

The students feedback helps reform the examination, evaluation and ensuring transparency. The feedback received from the parents and alumni are placed before the University Committee for Planning. The Dean Academic affair and the Dean PGS&R are jointly responsible for the collection, analysis and reporting of stakeholder feedback relating to academic programs. A core set of questions forms the basis of a survey to systematically evaluate teaching and learning.

Students Mentoring system is existing in this University to generate healthy interaction between students, parents and teachers and reduce student grievances. The Dean, Student welfare of the University supervises and effectively implements it at University level.

SAMARTH ERP system has been integrated with the examination process. Continuous evaluation of internal assessment of theory and sessionals have been improved by increasing the allotment of marks. Students are shown evaluated copies and discuss with the examiners regarding any correction or doubts.

### **Research, Innovations and Extension**

VSSUT fosters research endeavors within the campus. Faculty members are encouraged to seek support from internal seed funding diverse funding agencies for their research initiatives. The institution motivates faculty members through incentives for peer-reviewed publications, book authorship, and patent filings. It has provided seed money to its teachers for research of ₹ 6.28 lakh during AY 2018-2023. 61 number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during AY 2018-2023. Central research facility is available here. 20 number of faculty members from 10 number of departments are carrying out total project amount of ₹78.60 lakh funded with DST, SERB, OURIIP, IEI and other recognitions by national and international agencies. In AY 2022-23, 60 numbers of Ph.D's are awarded, 250 nos research papers are published by faculty members in reputed journals, 49 number in national/international conference-proceedings and 4 patents granted. Also, ₹ 7.09 lakh revenue is generated from consultancy work. VSSUT has collaborative activities by MoU with OSOU and industries.

Idea Innovation Cell, the official innovation club, provides adequate opportunities for budding technocrats to put forth extraordinary ideas and come up with innovative projects that can solve basic community problems of daily life. The club is equipped with various scientific tools and instruments. Its mega project, VSSUT Satellite Launch Vehicle (VSLV) has been acclaimed widely for being India's first and only indigenous sounding rocket to be built by a student body. Other projects, and events like webinars and hackathons are also carried out.

VSSUT significantly contributes to society and the environment by participating in the institute-neighborhood-community network. The NSS unit organizes health, blood donation, and haemoglobin checkup camps. Around 100 number of students participated in 4 programs in AY 2022-23 under extension and outreach programs conducted by the institution such as NSS/NCC, Swachh Bharat, Aids Awareness, Gender Issue, etc. 4 number of awards received for extension activities by the faculty members and researchers. The faculty members are

accoladed in university level faculty meeting who receive state, national and international awards and announcement in the Newsletter / website.

### **Infrastructure and Learning Resources**

The institute possesses the necessary facilities as per UGC guidelines. The campus spans 133.6 acres, with a building occupying 251633 sqft. The classrooms, laboratories, and seminar halls have state-of-the-art facilities, including a robust computing system and internet access. Furthermore, it emphasizes on extracurricular activities providing a spacious playground and offers support services through the NSS and NCC.

VSSUT has one cultural society for cultural activities led by Dean Student Welfare, Vice President and Faculty Advisor for smooth running of the cultural society activities such as literary activities, theatrical performances, musical and histrionic performances. The yoga club and athletic club also engage students for maintaining mental and physical health.

Fully gated and walled secure campus has 24x7 physical and electronic surveillance system. On campus residential accommodation is available for employees with a nominal rental. It has segregated female and male residential facilities and mess to accommodate 100 % of the enrolled students. It has a guest house that is operated by professional staff. The campuses have basic medical facilities and dedicated ambulances.

VSSUT is now a member of Indian National Digital Library in Engineering Science and Technology with financial support provided by the AICTE. As such online access to the journals of ASCE, ASME and IEL, IEEE, Science direct are available to all the members of the Library. Further under the auspices of the INDEST we have access to JET (J-Gate Engineering and Technology). Institution has subscription for eLibrary resources Library has regular subscription for the following: e – journals ebooks e-ShodhSindhu Shodhganga Databases maintained with annual expenditure of ? 79 lakh approximately. The students avail 500 MBPS - 1 GBPS bandwidth of internet. About 500 computers are provided in different labs for the students.

Total expenditure excluding salary for infrastructure augmentation goes up to ? 1300 lakh approximately. There are established procedures in place, ensuring the active involvement of all stakeholders. The Central Purchase and Stock Verification Committee oversee adherence to correct procedures in purchases and conduct periodic stock verifications. The library is maintained by the librarian and her team and all other facilities by respective PICs and support staff.

### **Student Support and Progression**

Students are benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) for both reserved/ unreserved categories.

Capacity development and skills enhancement initiatives are taken by the institution. Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) Awareness of trends in technology through training, workshops and regular curriculum.

The Institution adopts redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies by timely redressal of the grievances through appropriate committees such as disciplinary committee and internal complaint committee.

About 20 number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year 2022-23 and move for higher education. Total number of placement of outgoing students during the AY 2022-23 is 808 numbers. 26 number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national/international events (award for a team event should be counted as one) during AY 2022-23.

Effective student council is operational at VSSUT. It is an initiative to harness leadership skills amongst the students. The student led body undertakes responsibility in organizing various events, discipline students and bring accountability in their sphere of allocated duties. The Class Representative (CR) system is fundamental to student representation as leaders. Office of DSW monitors the effectiveness and outcome of Club/ Committee activities. Sports and cultural events / competitions organised by the institution for students throughout the year.

VSSUT has an Alumni Association. The Alumni have contributed funds to support economically disadvantaged and meritorious students at the Institution. They participate as members in the Board of Studies across all departments, attending meetings to interact with teachers and provide input on curriculum revision. Some alumni have delivered guest lectures to current students, sharing insights on contemporary technological developments and providing guidance on career choices.

### **Governance, Leadership and Management**

The University has vision to emerge as an internationally acclaimed Technical University. The effective leadership is reflected in various institutional practices such as decentralization and participative management in VSSUT. The highest decision-making body of the university is the Board of management. Academic council is the highest decision-making body related to academic matters of the university. The University constitutes Board of studies (BOS) for each department. BOS takes decision related to academic matter at department level, reviews existing syllabus and suggests for modification and implementation of new courses at department level. The University receives feedbacks from various stakeholders which are summarized and analysed. The recommendations are communicated to the BOS for curriculum revision.

VSSUT is a state government institution and therefore the functioning of the university follows the norms of SDTE dept. of Govt. of Odisha and it decides the service rules. e-governance by SAMARTH portal is implemented for administration, student admission and support and examination.

Being a state government institution, the institution receives funding from government for its regular operations and development activities. The teachers provided with financial support to attend conferences / workshops and FDPs. The faculty members also conduct professional development / administrative training programmes funded by various agencies. About 239 number of FDP have been attended by faculty members during AY 22-23 for improvement of domain knowledge for teaching and learning. The institution has a performance appraisal system for both faculty members and non-teaching staff.

The institute has established mechanisms for conducting internal and external audits for every financial year to ensure financial compliance. Statutory financial audit is conducted in six months interval. Finalization of the account is completed in June/July and audited statements are prepared in June/July duly signed by the Comptroller of Finance, and chartered accountant. No major objections are found in the audit by the statutory auditors and minor audit suggestions are compiled with as per procedure.

IQAC cell works for sending information for accreditation by NBA, NAAC and NIRF ranking. After the formation of the IQAC cell, the institute has made significant improvements in the teaching learning process, research and development, consultancy etc.

## **Institutional Values and Best Practices**

### Values

- The Institute has an Internal Complaint Cell to eliminate unlawful discrimination, harassment, victimization and any other conduct that affects equality.
- The Institution adopts for alternate sources of energy and energy conservation solar energy wheeling to the Grid, sensor-based energy conservation, use of LED bulbs/ BEE star labelled equipments.
- Solid waste is segregated as bio-degradable and non-degradable and handed over to Sambalpur Municipal Corporation (SMC) residential facilities. The electronics wastes from VSSUT are written-off and disposed through tender calls and approval. The students are involved in research for recycling and upcycling of waste.
- Water conservation facilities such as rain water harvesting bore well /open well recharge are in the campus. Lawns and gardens are developed from rainwater harvested.
- The institution takes initiatives for reducing pollution, enhance healthy habits and greening the campus. The resident students are banned from plying power-driven vehicles (two wheeler/four wheeler) inside as well as outside the campus. Use of bicycles is encouraged.
- The campus has big shady plants make the pedestrians comfortable moving inside the academic campus on foot even during summer.
- The Social Service and Guides (SSG) Society has put up boards to sensitize students to reduce use of plastic.
- The institution is barrier-free for divyangjan and signage is put for wheelchair availability.
- VSSUT organizes various activities to sensitize students and employees to the constitutional values, rights, duties, social harmony and responsibilities of the citizens.
- The students are given responsibilities as secretaries of various clubs to learn leadership and work and connect with people.
- The students are newsmaker for participation and winning in technical, cultural and athletic completions, start-ups and organizing events successfully.

### Best Practices

1. Transparency and timeliness in conduct of examination and result publication.
2. Service to community through regular and emergency blood donation and imparting education to the underprivileged through Sanskar Kendra.



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the University	
Name	VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY
Address	PO- Engineering College, Burla Dist- Sambalpur, Odisha
City	Sambalpur
State	Orissa
Pin	768018
Website	<a href="http://www.vssut.ac.in">www.vssut.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice Chancellor	Banshidhar Majhi	0663-2430211	9437572477	0663-2430212	vc@vssut.ac.in
Professor	Amar Nath Nayak	0663-2430573	9861238403	0663-2430592	annayak_ce@vssut.ac.in

Nature of University	
Nature of University	State University

Type of University	
Type of University	Unitary

Establishment Details	
Establishment Date of the University	12-08-1956
Status Prior to Establishment, If applicable	Autonomous College
Establishment Date	01-01-1970

<b>Recognition Details</b>		
<b>Date of Recognition as a University by UGC or Any Other National Agency :</b>		
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>
2f of UGC	05-01-2010	<a href="#">View Document</a>
12B of UGC	08-11-2012	<a href="#">View Document</a>

<b>University with Potential for Excellence</b>	
Is the University Recognised as a University with Potential for Excellence (UPE) by the UGC?	No

<b>Location, Area and Activity of Campus</b>							
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>	<b>Programmes Offered</b>	<b>Date of Establishment</b>	<b>Date of Recognition by UGC/MHRD</b>
Main campus	PO- Engineering College, Burla Dist- Sambalpur, Odisha	Urban	213.785	161.35	BTECH, M.TECH, MCA, MSC, INTEGRATED MSC, PHD		

## 2.2 ACADEMIC INFORMATION

### Affiliated Institutions to the University

<b>Type of Colleges</b>	<b>Permanent</b>	<b>Temporary</b>	<b>Total</b>
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### Furnish the Details of Colleges of University

Type Of Colleges	Numbers
Constituent Colleges	0
Affiliated Colleges	0
Colleges Under 2(f)	0
Colleges Under 2(f) and 12B	0
NAAC Accredited Colleges	0
Colleges with Potential for Excellence(UGC)	0
Autonomous Colleges	0
Colleges with Postgraduate Departments	0
Colleges with Research Departments	0
University Recognized Research Institutes/Centers	0

Is the University Offering any Programmes Recognised by any Statutory Regulatory Authority (SRA)	: Yes						
<table border="1"> <thead> <tr> <th>SRA program</th> <th>Document</th> </tr> </thead> <tbody> <tr> <td>AICTE</td> <td><a href="#">108699_12886_1_1691133534.PDF</a></td> </tr> <tr> <td>COA</td> <td><a href="#">108699_12886_18_1704978203.pdf</a></td> </tr> </tbody> </table>	SRA program	Document	AICTE	<a href="#">108699_12886_1_1691133534.PDF</a>	COA	<a href="#">108699_12886_18_1704978203.pdf</a>	
SRA program	Document						
AICTE	<a href="#">108699_12886_1_1691133534.PDF</a>						
COA	<a href="#">108699_12886_18_1704978203.pdf</a>						

### Details Of Teaching & Non-Teaching Staff Of University

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned	45				95				164			
Recruited	30	0	0	30	33	11	0	44	83	54	0	137
Yet to Recruit	15				51				27			
On Contract	0	0	0	0	0	0	0	0	22	18	0	40

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				143
Recruited	68	10	0	78
Yet to Recruit				65
On Contract	61	6	0	67

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned				71
Recruited	49	1	0	50
Yet to Recruit				21
On Contract	30	1	0	31

### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	30	0	0	33	11	0	33	14	0	121
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	54	39	0	93
UG	0	0	0	0	0	0	0	0	0	0

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	4	9	0	13
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	0	0	0	16	9	0	25
UG	0	0	0	0	0	0	0	0	0	0

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

**Distinguished Academicians Appointed As**

	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Emeritus Professor	0	0	0	0
Adjunct Professor	0	0	0	0
Visiting Professor	0	0	0	0

**Chairs Instituted by the University**

Sl.No	Name of the Department	Name of the Chair	Name of the Sponsor Organisation/Agency
1	Not Available	Not Available	Not Available

**Provide the Following Details of Students Enrolled in the University During the Current Academic Year**

Programme		From the State Where University is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	2859	21	0	3	2883
	Female	1132	0	0	0	1132
	Others	0	0	0	0	0
PG	Male	353	0	0	0	353
	Female	324	0	0	0	324
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	302	0	0	0	302
	Female	192	0	0	0	192
	Others	0	0	0	0	0

<b>Does the University offer any Integrated Programmes?</b>	No
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**Details of UGC Human Resource Development Centre, If applicable**

Year of Establishment	12-08-1956
Number of UGC Orientation Programmes	0
Number of UGC Refresher Course	0
Number of University's own Programmes	0
Total Number of Programmes Conducted (last five years)	0

**Accreditation Details**

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Cycle Info	Accreditation	Grade	CGPA	Upload Peer Team Report
Cycle 1	Accreditation	B	2.76	<a href="#">NAAC VSSUT.pdf</a>

## 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Architecture	<a href="#">View Document</a>
Chemical Engineering	<a href="#">View Document</a>
Chemistry	<a href="#">View Document</a>
Civil Engineering Department	<a href="#">View Document</a>
Computer Application	<a href="#">View Document</a>
Computer Science And Engineering	<a href="#">View Document</a>
Electrical And Electronics Engineering	<a href="#">View Document</a>
Electrical Engineering	<a href="#">View Document</a>
Electronics And Telecommunication Engineering	<a href="#">View Document</a>
Humanities	<a href="#">View Document</a>
Information Technology	<a href="#">View Document</a>
Mathematics	<a href="#">View Document</a>
Mechanical Engineering	<a href="#">View Document</a>
Metallurgical And Materials Engineering	<a href="#">View Document</a>
Physics	<a href="#">View Document</a>
Production Engineering	<a href="#">View Document</a>

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The college is aiming to enhance students' overall development encompassing intellectual, aesthetic, social, physical, emotional, and moral aspects by integrating multidisciplinary subjects in accordance with the National Educational Policy 2020. Additionally, recognizing student challenges, the college intends to introduce short-term and
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	<p>vocational courses with the objective of equipping students for self-employment rather than relying solely on government jobs. Furthermore, as the college expands its offering of multidisciplinary subjects, it is committed to identifying program learning outcomes, as well as course and unit learning outcomes, which delineate the specific knowledge, skills, attitudes, and values to be acquired by learners, ensuring the attainment of each program's objectives.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>The institution has launched an initiative to register students on the ABC portal and furnish the necessary data to the University. Workshops were organized for both staff and students to facilitate student registration on the ABC portal, with staff also attending training sessions organized by the University on ABC and NEP. The institution is implementing ABC to enable students to benefit from multiple entry and exit options within their chosen program. ABC will also facilitate students in earning credits through National eLearning portals such as SWAYAM and NPTEL. The institute will adhere to the guidelines and academic program structures set by the affiliating university in this regard. Furthermore, as part of its commitment to empowering youth, the University has initiated efforts to encourage students to enroll in relevant courses on these National eLearning Portals. This initiative aims to equip students with essential skills, fostering their self-development and aligning with the country's needs. Additionally, our faculty members have undergone training in curricular design and pedagogical approaches, focusing particularly on online teaching-learning, academic video creation, e-content development, experiential learning, and the design of assignments and assessments.</p>
<p>3. Skill development:</p>	<p>The university is dedicated to promoting Value-Based Quality Education as part of its vision, striving to instill a sense of positivity among its learners. In alignment with this vision, the college actively celebrates national festivals such as Independence Day and Republic Day. Additionally, it observes various programs including World AIDS Day, Environment Day, and the Birth and Death Anniversaries of our National leaders, aimed at cultivating positive qualities among students. Mentoring students is another integral practice of the</p>



	<p>institution, designed to empower students to explore potential employment opportunities post-graduation and maximize the benefits of their academic endeavors.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>To foster the promotion of local language, art, and culture, it is a standard practice at our institute to conduct all NSS activities in the adopted village and nearby schools in the local Assamese language. Additionally, the college enthusiastically celebrates Rongali Bihu, the premier festival of Assam, with active participation from both teachers and students in various cultural events. Furthermore, recognizing the diverse ethnic backgrounds of our students, including Ahom, Chutia, Tea-tribes, Nepali, among others, the college ensures that all are provided opportunities to showcase their cultural heritage through performances in their respective traditional languages and attire during various college events. Our college magazine, departmental journals, and wall magazines are published bilingually in Assamese and English, allowing students to express their creativity and opinions in their preferred language. Given that many of our students hail from rural areas, they are encouraged to freely express their thoughts and ideas in their native language, promoting inclusivity and cultural richness within the college community.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The university, adheres to directed guidelines, implementing a diverse range of teaching and learning methodologies including lectures, seminars, tutorials, workshops, practical sessions, project-based learning, fieldwork, technology-enabled learning, internships, apprenticeships, and research work wherever feasible. All programs are structured around outcomes-based education (OBE), tailored to meet regional and global demands. Course outcomes for each subject are clearly defined within the curriculum by university. Since 2019-20, the Institute has embraced outcome-based education, delineating Program Outcomes (PO), Programme Specific Outcomes (PSO), and course outcomes. These outcomes focus on cognitive abilities such as Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating. Additionally, apart from domain-specific skills, the learning outcomes at all levels emphasize social responsibility, ethics, and entrepreneurial skills, enabling students to actively</p>

	contribute to the economic, environmental, and social well-being of the nation. The Course Objectives (COs) are also aligned with the PO-PSO philosophy.
6. Distance education/online education:	The institution has proactively prepared for situations like the COVID-19 pandemic, ensuring continuity in the teaching-learning process through various online modes such as apps, Google Meet, and WhatsApp. With the entire college campus being Wi-Fi enabled and projectors installed in several classrooms, there are no hindrances to online education. In the post-pandemic period, both faculty and students have embraced the online learning experience, taking full advantage of the flexible blended mode of teaching and learning. Departments are utilizing platforms like Google Classroom, Google Meet, and WhatsApp for sharing learning content across most subjects and courses. Faculty members have undergone training to effectively utilize online platforms for teaching through programs like Faculty Development Programs (FDP), short-term courses, induction programs, and workshops conducted during the lockdown period. Despite the challenges posed by the COVID-19 pandemic, the institute has continued to organize various programs, meetings, and seminars for students through online platforms, including conferences and meetings. These efforts align with the emerging norm, reflecting the principles outlined in the New Education Policy.

### Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	An Electoral Literacy Club has been set up in the University. This club is regularly organizing various literacy competitions among students for creating special interest in outreach literacy programme. Different expert lectures are also organized frequently by the club for awareness of students. The activities regarding electoral literacy is shown under student activities on the webpage <a href="https://vssut.ac.in/doc/ELC-Newsletter.pdf">https://vssut.ac.in/doc/ELC-Newsletter.pdf</a>
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Students' co-ordinator and co-ordinating faculty members are appointed by the University and it is functional. It is under the students Society for Social Services (SSS). A pledge is taken by the students on

	<p>Voter day to exercise their power to vote. The students are sensitized to get voter i-card and fill it up online to modify their address to VSSUT if facing difficulty casting in their native place due to academic schedules.</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>The activities to arouse voters is not limited to the Electoral Literacy Club only. Besides the Electoral Club, the students' activities are spread cohesively by other clubs in this respect. The students participate in MUN acting as a leader for a portfolio. The students under NSS have visited nearby villages for camp. During the camp, they emphasize and promote the role of voters in selecting leaders. During the techno-cultural fest VASSAUNT of VSSUT held in March 2023 the students under Emotica acted in a street play "Corruption and Vision of New India". The message delivered was loud and clear about how to vote and exercise the power given by the Constitution to the common man. India hosts various types of politicians having different mindsets and different views there are good politicians with a developing mindset and not all are corrupted, people need to choose wisely reviewing their previous works and upcoming ideas and vote rather than falling for mere money and other kinds of stuff if they focus on development then we can see a developing future of the nation.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>Being a Technical Institution, socially relevant projects/initiatives are rarely taken by University in electoral related issues.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>About 20% of students are yet to be enrolled as in the 1st year some of the students have not reached the age of 18 years. Awareness is created to enroll as voter and help them in getting it done by the help of student coordinators through filing up of forms, awareness sessions etc.</p>

## Extended Profile

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### 1 Students

#### 1.1

**Number of students on rolls year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4622	4579	4890	4872	4289
File Description		Document		
Institutional Data in prescribed format		<a href="#">View Document</a>		

#### 1.2

**Number of final year outgoing students year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
1276	1213	1234	1327	1296
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

### 2 Teachers

#### 2.1

**Number of full time teachers in the institution year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
236	239	255	255	273
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

**Total number of full time teachers worked/working in the institution (without repeat count) during last five years:**

**Response: 250**

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 3 Institution

#### 3.1

**Total expenditure excluding salary year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
8604.51	2326.3	3256.76	3789.16	2255.30

## 4. Quality Indicator Framework(QIF)

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### Criterion 1 - Curricular Aspects

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#### 1.1 Curriculum Design and Development

##### 1.1.1

**Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs), and Course Outcomes(COs) of the Programmes offered by the University**

**Response:**

Developing curricula that cater to the diverse needs of local, regional, national, and global developmental requirements is paramount for universities aiming to produce graduates equipped to address contemporary challenges and contribute meaningfully to society. The alignment of Program Outcomes (POs) and Course Outcomes (COs) with these developmental needs ensures that educational programs remain relevant and responsive to the dynamic demands of the world. Through a thoughtful and comprehensive approach, VSSUT designs curricula that not only meet academic standards but also foster a broader impact on societal development. At the local level, curricula should be tailored to address the specific needs, challenges, and opportunities present within the university's immediate community. This involves conducting thorough needs assessments and engaging with local stakeholders such as industries, government agencies, and community organizations. By understanding the local context, VSSUT aspires to design the curricula that equip students with the knowledge, skills, and competencies necessary to address local issues and contribute to the sustainable development of their communities. In this context, National Service Scheme (NSS) is included in the curricula. Furthermore, regional considerations play a crucial role in curriculum development. Regions often share common challenges and opportunities shaped by geographical, cultural, economic, and social factors. Curricula of VSSUT reflects these concerns by incorporating specific case studies, examples, and interdisciplinary approaches involving issues and challenges faced by eastern region of the country in general and western Odisha in particular. This prepares students to navigate the complexities of regional development and contribute to regional integration and prosperity. National developmental needs provide another critical dimension for curriculum alignment. Universities have a responsibility to support national agendas for economic growth, social cohesion, and environmental sustainability. Being a state university, our curricula aligns with national development plans, policies, and priorities such as NEP ensuring that graduates possess the expertise and leadership capabilities needed to drive progress in key sectors and contribute to the nation's overall development. In today's interconnected world, global perspectives are indispensable for preparing students to thrive in an increasingly globalized society. Our students are equipped with the knowledge, digital skills, and attitudes necessary to engage with global issues, collaborate across cultures, and contribute to global solutions. Many reputed organizations such as CISCO, NASSCOM, COURSERA, IBM are partnered for providing digital skilling to the students. Our holistic approach to curriculum development aligns POs and COs with local, regional, national, and global developmental needs. The major stakeholders are involved at multiple levels through conducting rigorous research and analysis, and fostering interdisciplinary collaboration among faculty members for development of curricula. Continuous evaluation and feedback mechanisms are performed to ensure that curricula remain responsive to evolving developmental needs and emerging trends. The curriculum is revised every four years.

All details are available here.

UG Syllabus: <https://vssut.ac.in/ug-syllabus-2019-20.php>

PG Syllabus: <https://vssut.ac.in/pg-syllabus-2019-20-.php>

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

### 1.1.2

**The Programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements**

#### **Response:**

Universities offering programs with a strong focus on employability, entrepreneurship, and skill development are crucial drivers of economic growth and societal progress. Recognizing the rapidly evolving nature of industries and the dynamic needs of the job market, VSSUT continuously revise the course syllabi every four years to incorporate contemporary requirements. By doing so, it is ensured that our graduates are equipped with the knowledge, skills, and competencies demanded by employers and are prepared to succeed in today's competitive landscape. The first pillar of this approach is to prioritize employability. In an era where job markets are increasingly competitive and rapidly changing, VSSUT aligns its programs with the skill sets demanded by employers. The programs offered by the institution have developed the curriculum in consultation with various stakeholders. This has resulted in significant focus on employability, entrepreneurship and skill development. Also, the students are encouraged to select courses from SWAYAM, COURSERA and other MOOC platforms for skill development. The Odisha Skill development schemes under Nua Odisha programs are added to improve the focus on employability. As per the directive of the Government, email IDs are created for each and individual students so that they can participate in various skill development programs. Entrepreneurship is another key focus area for institutions seeking to foster innovation and economic development. By nurturing an entrepreneurial mindset and providing students with the tools and resources to pursue entrepreneurial ventures, institutions play a vital role in cultivating the next generation of business leaders and innovators. Course syllabi of VSSUT is designed to impart essential entrepreneurial skills such as critical thinking, problem-solving, creativity, and risk-taking. Additionally, opportunities for experiential learning, mentorship, and networking can further empower students to explore entrepreneurial opportunities and turn their ideas into reality. In this context, incubation centers have been set up. Further, students from final year and pre-final year students have been allowed are allowed to undertake internship in different companies. Skill development is at the heart of effective education for employability and entrepreneurship. Institutions must ensure that their course syllabi reflect the evolving needs of the workforce and equip students with a diverse range of skills that are transferable across industries and roles. This includes technical skills relevant to specific fields, as well as soft skills such as

communication, teamwork, adaptability, and leadership. Course content are designed to foster hands-on learning experiences, project-based assignments, and real-world simulations that enable students to develop and apply their skills in practical settings. Continuous revision of course syllabi is essential to keep pace with the rapidly changing landscape of industries and professions. VSSUT proactively monitors industry trends, solicit feedback from employers and alumni, and conduct regular evaluations of their programs to identify areas for improvement and innovation.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1

**Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years**

**Response:** 67.72

**1.2.1.1 Number of new courses introduced during the last five years:**

Response: 621

**1.2.1.2 Consolidated number of courses offered by the institution across all Programmes (without repeat count) during the last five years :**

Response: 917

File Description	Document
Subsequent Academic Council meeting extracts endorsing the decision of BOS	<a href="#">View Document</a>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>



## 1.3 Curriculum Enrichment

### 1.3.1

#### **Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum**

#### **Response:**

Integrating cross-cutting issues such as professional ethics, gender equality, human values, environmental sustainability, and other values enshrined in the Sustainable Development Goals (SDGs) and the National Education Policy (NEP) - 2020 into the curriculum is essential for universities to foster holistic development and prepare students to be responsible global citizens. By embedding these themes throughout the curriculum, VSSUT not only imparts knowledge but also instill values and attitudes that promote ethical behavior, social responsibility, and sustainable practices. Professional ethics serve as the foundation of integrity and accountability in all fields of work. By introducing Professional Ethics, Professional Law & Human Values as a compulsory subject in the curriculum, VSSUT cultivates a strong ethical compass among students. Case studies, debates, and role-playing exercises help students develop critical thinking skills and ethical reasoning, enabling them to navigate complex ethical issues they may encounter in their professional careers. Gender equity is fundamental to creating inclusive and equitable societies. Institutions must ensure that their curriculum promotes gender awareness, challenges stereotypes, and fosters an understanding of gender issues and discrimination. By incorporating gender perspectives into course content across disciplines, institutions can empower students to become advocates for gender equality and contribute to building a more just and inclusive world. Induction Program and participation in clubs and societies encourage gender equity. Human values such as empathy, compassion, and respect for diversity are essential for fostering meaningful relationships, promoting social cohesion, and nurturing ethical leadership. The course 'Universal Human Values' have been introduced as a credited course in the curriculum. Faculty members have also undergone training on Universal Human Values. By cultivating a culture of empathy and ethical leadership, students can be inspired to make ethical decisions and act with integrity in their personal and professional lives. Environmental sustainability is a pressing global issue that requires urgent action. Institutions have a responsibility to educate students about the interconnectedness of environmental, social, and economic systems and the importance of sustainable development. By integrating concepts of environmental sustainability, climate change, and resource management into the curriculum, VSSUT empowers students to become stewards of the environment and advocates for sustainable practices in their communities and workplaces. The Sustainable Development Goals (SDGs) provide a comprehensive framework for addressing the world's most pressing challenges, including poverty, inequality, climate change, and environmental degradation. VSSUT incorporates the SDGs into the curriculum by aligning course content with the goals, facilitating discussions on sustainable development, and encouraging students to explore how their academic pursuits can contribute to achieving the SDGs. By fostering a sense of global citizenship and social responsibility, VSSUT inspires students to take action to advance sustainable development locally and globally. NSS/NCC/Yoga courses offered by the institute keeps the SDGs as major focus. The National Education Policy (NEP) - 2020 of a country provides a roadmap for transforming education systems to meet the needs of the 21st century. VSSUT has aligned the curriculum with the principles and objectives of the NEP by promoting holistic development, critical thinking, creativity, and innovation. By embracing the values and goals outlined in the NEP, institutions can prepare students to thrive in a rapidly changing world and contribute to the social, economic, and cultural development of their communities and nations.

File Description	Document
Upload Additional information	<a href="#">View Document</a>
Provide Link for Additional information	<a href="#">View Document</a>

**1.3.2**

**Number of certificate/value added courses/Diploma Programme offered by the institutions and online courses of MOOCs, SWAYAM/e Pathshala/ NPTEL and other recognized platforms (without repeat count) where the students of the institution have enrolled and successfully completed during the last five years**

**Response:** 1127

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**1.3.3**

**Percentage of programmes that have components of field projects / research projects / internships during the last five years.**

**Response:** 100

**1.3.3.1 Total Number of programmes that have components of field projects / research projects / internships (without repeat count) during the last five years**

**Response:** 55

**1.3.3.2 Total Number of programmes offered (without repeat count) during the last five years**

**Response:** 55

File Description	Document
Sample Internship completion letter provided by host institutions	<a href="#">View Document</a>
Program and course contents having element of field projects / research projects / internships as approved by BOS	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 1.4 Feedback System

### 1.4.1

**Structured feedback for curriculum and its transaction is regularly obtained from stakeholders like Students, Teachers, Employers, Alumni, Academic peers etc., and Feedback processes of the institution may be classified as follows:**

**Response:** A. Feedback collected, analysed, action taken & communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1

##### Enrolment percentage

**Response:** 79.07

##### 2.1.1.1 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1628	1504	1393	1393	1393

##### 2.1.1.2 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
1314	1188	1151	1016	1112

#### File Description

#### Document

Provide the relevant information in institutional website as part of public disclosure

[View Document](#)

Institutional data in the prescribed format (data template)

[View Document](#)

Document relating to sanction of intake as approved by competent authority

[View Document](#)

Admission extract signed by the competent authority (only fresh admissions to be considered)

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

#### 2.1.2

##### Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

**Response:** 80.38

**2.1.2.1 Number of actual students admitted against the reserved categories in the first year of the programme year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
336	207	213	211	209

**2.1.2.2 Total number of seats earmarked for reserved category as per GOI or State Government rule year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
393	269	269	266	266

<b>File Description</b>	<b>Document</b>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	<a href="#">View Document</a>
Copy of the letter issued by the State govt. or Central Government Indicating the reserved categories(SC, ST, OBC, Divyangjan, etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.2 Catering to Student Diversity****2.2.1**

**The institution assesses the learning levels of the students and organises special Programmes to cater to differential learning needs of the student**

**Response:**

Assessing the learning levels of students and organizing special programs to cater to their differential

learning needs is essential for ensuring inclusive and equitable education. Recognizing that students have diverse learning styles, abilities, and backgrounds, VSSUT adopts a proactive approach to assessment and intervention to support the academic growth and development of all learners. Formative assessments such as assignments, quiz tests, surprise tests, viva voce are conducted regularly to measure the learning level of students. The learning levels are further gauged by summative assessments such as mid semester examination and end semester examination. Once students' learning needs have been identified, VSSUT organizes special programs to provide targeted support and enrichment opportunities to the students. These programs include remedial classes, small-group instruction, one-on-one tutoring, enrichment activities, and differentiated instruction strategies which are conducted in vacant slots available in the time table. By addressing students' specific learning needs in a supportive and nurturing environment, we help them build confidence, overcome challenges, and reach their full potential. The advance learners are given challenging assignments. They are also introduced to modern and latest open source software which they can use to improve their skills. Further, special talks by eminent personalities are held regularly to encourage and motivate students for challenging tasks. In addition, faculty members encourage students to develop new ideas which can be patentable and they help them to file patents in due course. Workshops on student development programs are regularly held. Industry experts are invited to deliver talks on relevant and contemporary developments. For rapid and fast learners, coaching for competitive exams is provided at the institute level to enable them participate in competitive examinations. The training and placement department regularly organizes soft skill development programs for students of all semesters. Fast learners are encouraged to present papers in conferences. In addition to academic support, it is essential to consider the socio-emotional well-being of students and provide appropriate interventions to address social, emotional, and behavioral challenges. Special programs such as counseling services, social skills groups, peer mentoring, and mindfulness activities are conducted to help students develop resilience, self-regulation, and interpersonal skills, enabling them to navigate academic and personal challenges more effectively. Collaboration and communication among teachers, administrators, support staff, and parents are critical for the success of special programs catering to differential learning needs. By fostering a culture of collaboration and shared responsibility, the university leverages the expertise and resources of multiple stakeholders to design and implement effective interventions that meet the diverse needs of students. Moreover, technology plays a valuable role in supporting differential learning needs by providing personalized learning experiences, adaptive assessments, and access to educational resources and tools. Digital platforms and educational software such as google classroom, Microsoft Team etc. are used to create customized learning pathways, track student progress, and provide real-time feedback, allowing educators to tailor instruction to individual students' needs and preferences. Continuous monitoring and evaluation of special programs are essential to ensure their effectiveness and make ongoing adjustments based on student progress and feedback. Data on program outcomes, course outcomes, student engagement, and satisfaction levels are gathered to assess the impact of interventions and identify areas for improvement. By adopting a data-driven approach to decision-making, the university continuously refines and enhances their support services to better meet the evolving needs of students.

File Description	Document
Upload Any additional information	<a href="#">View Document</a>
Provide link for additional information	<a href="#">View Document</a>

**2.2.2****Student - Full time teacher ratio (Data for the latest completed academic year)****Response:** 19.58

<b>File Description</b>	<b>Document</b>
List showing the number of students in each of the programs for the latest completed academic year across all semesters	<a href="#">View Document</a>
Certified list of full time teachers along with the departmental affiliation in the latest completed academic year.	<a href="#">View Document</a>

**2.3 Teaching- Learning Process****2.3.1**

**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process**

**Response:**

In modern educational practices, student-centric methods such as experiential learning, participative learning, and problem-solving methodologies have emerged as transformative approaches to enhance the learning experience. These methodologies prioritize active engagement, critical thinking, and collaboration, fostering deeper understanding and retention of concepts. Additionally, integrating ICT-enabled tools, including online resources, further enriches the teaching and learning process by providing access to a wealth of information, facilitating communication, and promoting interactive learning experiences. Experiential learning immerses students in hands-on activities and real-world experiences, allowing them to apply theoretical knowledge in practical contexts. Through experiments, field trips, simulations, and project-based learning, our students actively engage with course material, gaining a deeper understanding of concepts and developing essential skills such as problem-solving, decision-making, and communication. Participative learning emphasizes active involvement and collaboration among students, creating a supportive and inclusive learning community. Through discussions, group work, debates, and peer-to-peer interactions, our students share ideas, perspectives, and experiences, enriching their learning experience through collective insights and diverse viewpoints. Problem-solving methodologies challenge students to analyze complex problems, think critically, and develop innovative solutions. By presenting authentic problems and encouraging inquiry-based learning, our teachers empower students to apply their knowledge and skills to real-world challenges to solve problems faced by nearby industries. Problem-solving methodologies promotes resilience, adaptability, and creative thinking, equipping students with the confidence and competence to tackle diverse problems and navigate uncertain situations. Moreover, they foster a growth mindset, encouraging students to embrace challenges and view failures as opportunities for learning and growth. Incorporating ICT-enabled tools, including online resources from NPTEL, SWAYAM, COURSERA etc enhances the effectiveness and

accessibility of teaching and learning. Educational platforms, digital learning materials, multimedia presentations, and interactive simulations provide students with engaging and interactive learning experiences. Moreover, ICT-enabled tools facilitate communication and collaboration among students and educators, transcending geographical barriers and fostering a global learning community. Teachers play a pivotal role in leveraging student-centric methods and ICT-enabled tools to create engaging and effective learning experiences. By incorporating multimedia presentations, educational videos, interactive quizzes, and online assessments into their teaching practices, our faculty cater to diverse learning preferences and abilities. Moreover, technology-enhanced teaching methods enable educators to personalize instruction, track student progress, and provide timely feedback, promoting student-centered learning and academic achievement.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide Link for Additional Information	<a href="#">View Document</a>

### 2.3.2

#### **The institution adopts effective Mentor-Mentee Schemes to address academics and student-psychological issues**

##### **Response:**

Implementing effective mentor-mentee schemes within educational institutions is paramount for providing holistic support to students, addressing both academic and psychological needs. These schemes foster a nurturing environment where students receive personalized guidance, encouragement, and mentorship from experienced individuals, facilitating their academic success and overall well-being. At the core of mentor-mentee schemes lies the establishment of meaningful relationships between mentors and mentees. In our university faculty members and senior students serve as mentors, advisors, and advocates for their mentees, offering guidance and support tailored to individual needs. One of the primary objectives of mentor-mentee schemes is to support students in achieving academic success. Our mentors work closely with mentees to monitor their academic progress, identify areas of strengths and weaknesses, and provide targeted interventions to enhance learning outcomes. This involves academic coaching, tutoring, study groups, and assistance with course selection and academic planning. By offering personalized academic support, mentors empower mentees to overcome obstacles, build confidence, and achieve their full academic potential. Furthermore, mentor-mentee schemes play a crucial role in addressing student-psychological issues and promoting mental well-being. Transitioning to college life can be challenging for students, often accompanied by feelings of stress, anxiety, and loneliness. Our mentors provide a support system for mentees, offering a listening ear, empathy, and practical advice to help them navigate personal and emotional challenges. Mentors also serve as advocates for mentees' mental health, promoting self-care practices, encouraging help-seeking behavior, and connecting them with appropriate resources and support services. In addition to one-on-one mentoring relationships, mentor-mentee schemes may incorporate group mentoring activities, peer support networks, and community-building initiatives. These collaborative efforts create opportunities for mentees to connect with peers, share experiences, and build a sense of belonging within the



institution. Group mentoring activities such as workshops, seminars, and social events provide mentees with valuable networking opportunities, leadership development, and exposure to diverse perspectives and experiences. The Office of the Dean, Student's Welfare (DSW), creates the list of Mentors for a set of students. Such students are regularly assessed and counselled by their mentors. The department heads monitor such assessments and provide report to the DSW. Based on the interactions, actions are recommended. Furthermore, the Student Monitoring and Counselling Committee (SMCC) is also constituted to address student issues and grievances. The institute employs counsellors to monitor and address the student-psychological issues under Self Reflection Cell (SRC). Regular evaluation and feedback mechanisms are essential for assessing the effectiveness of mentor-mentee schemes and identifying areas for improvement. Institutions should solicit feedback from both mentors and mentees to gauge satisfaction levels, evaluate program outcomes, and make data-driven decisions to enhance the quality and impact of mentorship initiatives. Continuous training and professional development opportunities for mentors ensure that they possess the knowledge, skills, and resources needed to effectively support mentees and adapt to evolving needs and challenges.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
List of Active mentors	<a href="#">View Document</a>
Provide Link for Additional Information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1

**Average percentage of full time teachers appointed against the number of sanctioned posts year wise during the last five years**

**Response:** 81

#### 2.4.1.1 Total Number of Sanctioned year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
308	308	308	308	308

<b>File Description</b>	<b>Document</b>
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts).	<a href="#">View Document</a>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template merged with 2.4.3 and 2.4.4)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.4.2**

**Percentage of full time teachers with Ph.D./D.M/M.Ch./D.N.B/ Superspeciality/L.L.D/D.S.C/D.Litt. during the last five years**

**Response:** 62

**2.4.2.1 Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B/ Superspeciality/L.L.D/D.S.C/D.Litt Superspecialist during the last five years**

**Response:** 155

<b>File Description</b>	<b>Document</b>
List of faculty having Ph.D./D.M/M.Ch./D.N. Superspeciality/ along with particulars of the degree awarding university, subject and the year of award per academic year.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copies of Ph.D./D.M/M.Ch./D.N.B Superspeciality awarded by UGC recognized universities	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.4.3**

**Average teaching experience of full time teachers (Data to be provided only for the latest completed academic year, in number of years)**

**Response:** 13.81

**2.4.3.1 Total teaching experience of full-time teachers as of latest completed academic year**

Response: 3258

<b>File Description</b>	<b>Document</b>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.5 Evaluation Process and Reforms****2.5.1**

**Average number of days from the date of last semester-end/ year- end examination till the last date of declaration of results during the last five years**

Response: 25.4

**2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the last date of declaration of results year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
35	11	33	16	32

<b>File Description</b>	<b>Document</b>
Provide the relevant information in institutional website as part of public disclosure	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.5.2**

**Percentage of student complaints/grievances about evaluation against total number of students appeared in the examinations during the last five years**

**Response: 0****2.5.2.1 Number of complaints/grievances about evaluation year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

**2.5.2.2 Number of students appeared in the examination conducted by the institution year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4622	4579	4890	4872	4289

File Description	Document
List the number of students who have applied for re- valuation/re-totalling program wise and the total certified by the Controller of Examinations year-wise for the assessment period.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.5.3****Status of automation of Examination division along with approved Examination Manual/ordinance****Response: B.** Only student registration, Hall ticket issue & Result Processing

File Description	Document
The screenshot should reflect the HEI name and the name of the module.	<a href="#">View Document</a>
The report on the present status of automation of examination division including screenshots of various modules of the software.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
If the EMS is outsourced, copy of the relevant contract and copies of bills of payment to be provided.	<a href="#">View Document</a>
Copies of the purchase order and bills/AMC of the software.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 2.6 Student Performance and Learning Outcomes

### 2.6.1

**The institution has stated learning outcomes (Program and Course outcomes)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution**

#### **Response:**

Outcome based education is an inherent part of the course delivery process. The syllabus of each course details the various course outcomes, program outcomes, program specific outcomes, program educational objectives and mission statements. During the semester the attainment of COs, POs and PSOs are computed based on the performance of the students through direct and indirect assessment methods. The various components of the course such as term examinations, quizzes, and assignments, all conform to the OBE paradigm. The mission, vision, program educational objectives and program outcomes (erstwhile graduate attributes) are provided at the beginning of syllabus of each of the programs which are widely disseminated through website (<https://vssut.ac.in/ug-syllabus-2019-20.php>). Course outcomes are written following latest OBE principles and Bloom's taxonomy covering various levels of learning such as creating, evaluating, analyzing, applying, understanding and remembering. A well established excel based application is used across programs for computation of attainment of COs, POs and PSOs. As an example the detailed curriculum of one of the programs incorporating the above aspects is uploaded here for reference. The details for all programs can be downloaded from university website from the links provided below.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Provide links as Additional Information	<a href="#">View Document</a>

**2.6.2**

**Pass percentage of students (excluding backlog students) (Data to be provided only for the latest completed academic year)**

**Response:** 100

**2.6.2.1 Total number of final year students who passed the examination conducted by Institution.**

Response: 1276

File Description	Document
percentage of students of the final year (final semester) eligible for the degree program-wise / year wise	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Certified report from the Controller of Examinations indicating the pass	<a href="#">View Document</a>
Annual report of COE highlighting the pass percentage of students	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**2.7 Student Satisfaction Survey****2.7.1**

**Online student satisfaction survey regarding teaching learning process**

**Response:**

File Description	Document
Upload any additional information	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Promotion of Research and Facilities

#### 3.1.1

**The institution's Research facilities are frequently updated and there are well defined policy for promotion of research which is uploaded on the institutional website and implemented**

**Response:**

The institution offers essential infrastructure and a conducive environment to foster research activities on campus. It boasts high-speed internet and 24x7 Wi-Fi coverage across the entire campus. The dedicated Central Computing Facility and Central Internet Facility are made available for researchers. Each research center is furnished with necessary software, computers, and LCD facilities to support research endeavors. Conference and seminar halls, equipped with LCD projectors, are provided for the seamless conduct of events like seminars and viva-voce examinations. Research departments maintain their own libraries stocked with books and journals, which are regularly updated. Engineering departments are equipped with essential instruments and softwares to facilitate research. A dedicated shelf in the library showcases books authored by teaching staff to incentivize publication. Financial assistance is extended to faculty for joining professional bodies, attending workshops, and conferences, promoting academic engagement and growth.

The institution allocates seed grant to staff members based on recommendations from the Dean of faculty and planning. Previously, plagiarism checks were conducted by sending papers and Ph.D. theses to the Library of the university. Now, the university has provided iThenticate, a plagiarism detection software, for verifying theses and other research publications to all the faculties. Incentives in the form of cash rewards are provided to faculty and students for publishing research articles in UGC-CARE/SCOPUS/SCI indexed refereed journals with high impact factors, aiming to encourage their scholarly output. Faculty members are actively encouraged to seek research funding from various agencies such as UGC, CSIR, DST, ISRO, DRDO, DAE, ICSSR, among others. The institution fosters collaboration by exchanging research expertise with other state, national, and international institutions through signed Memorandums of Understanding (MoUs). Additionally, the institution regularly organizes seminars, workshops, and conferences to nurture a vibrant research culture. To kickstart research initiatives, all final year undergraduate and postgraduate students are required to undergo field training and engage in project work.

The institution reconstitutes its Research Advisory Committee annually, encouraging faculty members to undertake research projects and providing ample support for their execution. Faculty members are strongly motivated to pursue Ph.D. degrees, and the committee oversees the entirety of faculty research activities. Additionally, an Ethics Committee operates within the university, emphasizing the importance of ethical conduct in research endeavors among faculty members. Furthermore, the committee mandates that teaching staff employ plagiarism detection software to verify the integrity of their research works. The university has a dedicated Central Research Facility (CRF) consisting of sophisticated instruments such as Scanning Electron Microscope, X-Ray Diffractometer, 3-D printing etc. The research facility is available 24x7 for utilization by faculty, students and researchers. Supercomputing facility and Blade server facility is made available in the E-learning centre of the institute. Besides the above-mentioned research facilities, 105 number of state-of-the-art laboratories are available in the university

spread across departments. Centrally funded projects such as FIST from DST, AICTE MODROB, SERB-CRG, SURE and state DST funded research projects are going on in the institute amounting to around 628 Lakhs.

File Description	Document
Upload COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

### 3.1.2

**The institution provides seed money to its teachers for research (average per year)**

**Response:** 9.83

**3.1.2.1 Amount of seed money provided by institution to its teachers for research year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	6.4148	42.76	0

File Description	Document
Sanction letters of seed money to the teachers is mandatory	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

### 3.1.3

**Percentage of teachers receiving national / international fellowship / financial support by various agencies for advanced studies / research during the last five years.**

**Response:** 4

**3.1.3.1 Number of teachers who received national/ international fellowship/financial support from various agencies, for advanced studies / research; year-wise during the last five years**

**Response:** 10



File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.1.4**

**Percentage of JRFs, SRFs among the enrolled PhD scholars in the institution during the last five years**

**Response:** 13.2

**3.1.4.1 The Number of JRFs, SRFs among the enrolled PhD scholars in the institution during the last five years**

Response: 33

**3.1.4.2 Number of PhD Scholars enrolled during last five years**

Response: 250

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.2 Resource Mobilization for Research****3.2.1**

**Total Grants research funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowment research chairs during the last five years (INR in Lakhs)**

**Response:** 628.36078

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.2.2**

**Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five years**

**Response:** 0.17

**3.2.2.1 Number of research projects funded by government and non-government agencies during the last five years**

Response: 42

File Description	Document
Institutional data in the prescribed format (data template merged with 3.2.1)	<a href="#">View Document</a>

**3.3 Innovation Ecosystem****3.3.1**

**Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident**

**Response:**

The institution has established an ecosystem for fostering Research and Innovation by attracting and nurturing skilled human resources, taking proactive steps towards knowledge creation and dissemination, and setting up cutting-edge infrastructure. Here are the details:

**Promotion of Innovation:** The University has established an Idea and Innovation Club, an Entrepreneurship Development Cell, and an Institutional Innovation Council (IIC) to encourage innovation and entrepreneurship endeavors. The formation of IIC adheres to the guidelines of MHRD and AICTE. Students are motivated to showcase their innovative project models and products through the annual project contest "Samavesh," which attracts over 100 projects from various departments. Exceptional project ideas are identified for further development into commercial products or submission to research funding agencies.

**Technology Business Incubation Park:** With the support of ISRO and the Government of India, the university has set up an incubation center. The Idea and Innovation Club, along with the Entrepreneurship Development Cell, facilitates pre-incubation support, startup initiatives, and training programs. Additionally, they organize Entrepreneurship Awareness Camp (EAC) programs.

**Centers of Excellence:** Faculty and students are encouraged to engage in research and development activities utilizing available resources. The laboratory equipment aids students in acquiring necessary skills and executing innovative projects across various domains.

**Human Resources:** The institution recruits dynamic and highly qualified faculty to mentor and guide students. Initiatives are in place to encourage faculty members to support students in extracurricular innovation activities. Furthermore, faculty members are motivated to participate in skill enhancement programs under government schemes.

**Research Infrastructure:** A Research Cell is established to incentivize faculty members to write research projects and submit them to various supporting agencies such as DRDO, DST, AICTE, DBT,

SERB, UPCST, among others. The Research Cell also fosters a research culture among faculty members and students.

**Collaborations:** The University has entered into Memorandums of Understanding (MOUs) with several industries to facilitate real-time project development.

File Description	Document
Link for Additional Informationa	<a href="#">View Document</a>

### 3.3.2

**Total number of awards received for *research/innovations* by institution/teachers/research scholars/students during the last five years**

**Response:** 70

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

## 3.4 Research Publications and Awards

### 3.4.1

**The institution ensures implementation of its stated Code of Ethics for research**

**The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following:**

- 1. Inclusion of research ethics in the research methodology course work**
- 2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc.,)**
- 3. Plagiarism check through software**
- 4. Research Advisory Committee**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copy of the syllabus of the research methodology course work to indicate if research ethics is included	<a href="#">View Document</a>

### 3.4.2

**Total number of Patents awarded during the last five years**

**Response:** 35

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

### 3.4.3

**Number of Ph.Ds awarded per recognized guide during the last five years**

**Response:** 1.19

**3.4.3.1 How many Ph.D s were awarded during last 5 years**

Response: 155

**3.4.3.2 Number of teachers recognized as guides during the last five years**

Response: 130

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

### 3.4.4

**Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years**

**Response:** 6.33

**3.4.4.1 Number of research papers published in the Journals as notified on UGC CARE list during**

**the last five years**

Response: 1583

<b>File Description</b>	<b>Document</b>
List and links of the papers published in journals listed in UGC CARE list and	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Link to the institutional website where the first page/full paper (with author and affiliation details) is published	<a href="#">View Document</a>

**3.4.5****Number of books and chapters in edited volumes published per teacher during the last five years**

Response: 1.52

**3.4.5.1 Total Number of books and chapters in edited volumes published during the last five years**

Response: 381

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.4.6***E-content is developed by teachers :*

- 1. For e-PG-Pathshala*
- 2. For CEC (Under Graduate)*
- 3. For SWAYAM*
- 4. For other MOOCs platform*
- 5. Any other Government initiative*
- 6. For institutional LMS*

Response: D. Any 2 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.4.7****Bibliometrics of the publications during the last five years based on average Citation index in Scopus/ Web of Science****Response:** 0

<b>File Description</b>	<b>Document</b>
Bibliometrics of the publications during the last five years	<a href="#">View Document</a>

**3.4.8****Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-index of the Institution****Response:** 0

<b>File Description</b>	<b>Document</b>
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View Document</a>

**3.5 Consultancy****3.5.1****Revenue generated from consultancy and corporate training during the last five years****Response:** 383**3.5.1.1 Total amount generated from consultancy and corporate training year-wise during the last five years (INR in lakhs).**

2022-23	2021-22	2020-21	2019-20	2018-19
18	50	90	115	110

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**3.6 Extension Activities**

**3.6.1**

**Outcomes of extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues and holistic development, and awards received if any during the last five years (Showcase at least four case studies to the peer team)**

**Response:**

The university organizes a number of extension activities to promote institute-neighborhood community to sensitize the students towards community needs. The students of our university actively participate in social service activities leading to their overall development. The university runs effectively National Service Scheme and National Cadet Corps Units. Through these units, the university undertakes various extension activities in the neighbourhood community. NSS organizes a residential seven day camp in nearby adopted village and several activities were carried out by NSS volunteers addressing social issues which include cleanliness , tree plantation ,Social interaction, Group discussion Eradication of superstition, Beti Bacho Beti Padhao, Environmental awareness, Women empowerment, National Integrity, Aids awareness, Blood donation camp, Health check up camp, Veterinary guidance ,Farmers meet, Awareness about farmer's suicide etc. The NCC unit of the university comes under batalion. It aims at developing qualities of leadership, patriotism, maintaining discipline, character building, spirit of adventure and the ideal of self service. The NCC unit of the university organizes various extension activities as tree plantation, Road safety awareness,Ekta daud for health, Save fuel save country programme,Swachhta Abhiyan ,National equality awareness. Other than NSS and NCC units, the various departments of the university is conscious about its responsibilities for shaping students into responsible citizens of the country by making students aware of social issues through various programmes like Environmental Awareness, Personal Health and Hygiene, Diet awareness, Road Safety, Tree Plantation, Soil and Water Testing, Plastic eradication, No vehicle day,Jananisuraksha,organizing visit to Orphanages and Anganwadi,Voters awareness, Blood group detection ,Health check -up camps, Blood donation camps,Dental checkup camp, etc. All these mentioned activities have positive impact on the students and it developed student community relationship, leadership skill and self confidence of students. It also helped in cultivating hidden personality of students and created awareness among students.

**3.6.2**

**Number of extension and outreach programs conducted by the institution through organized forums like NSS/NCC with involvement of community year wise during the last five years**

**Response:** 43

**3.6.2.1 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community year wise during the last five years.**

2022-23	2021-22	2020-21	2019-20	2018-19
13	19	9	2	0

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

### 3.7 Collaboration

#### 3.7.1

**Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years**

**Response:** 10

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>



## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1

*The institution has adequate infrastructure facilities for*

*a. teaching - learning. viz., classrooms, laboratories,*

*b. ICT enabled facilities such as smart classes, LMS etc.*

*c. Facilities for cultural and sports activities , yoga centre, games (indoor and outdoor) gymnasium, auditorium etc.*

**Describe the adequacy of facilities within a maximum of 500 words**

#### **Response:**

The institute possesses the necessary physical and academic facilities in accordance with the guidelines of the University Grant Commission to facilitate for the operation of its various programs. The University campus spans over 212 acres, with a building occupying 25163.3 square meter. All 52 classrooms, equipped with smart board, sufficient state-of-the-art laboratories, and seminar halls for each programme including a robust computing system and Internet access to cater 5000 students need. A new building of S+8 of 50000 square meter is under finishing stage. In addition to the main building, the university boasts a spacious playground for different sports like football, cricket, basketball, volleyball. The indoor facility for badminton, table tennis, and other indoor sports facilities are available in university as well as in hostels. A 25-meter swimming pool is also available for students and staff. Round the clock gymnasium foster the need of students. Yoga halls are available in Hostel campus for use in every morning. Furthermore, the University fosters an environment that places significant emphasis on extracurricular activities and offers support services through the National Service Scheme and National Cadet Corps departments. Two 1200 and 450 seater auditoriums and an open auditorium for bigger social and cultural activities are available in the campus. University have 13 number of hostels to cater the 5000 students' residential need of both boys and girls. University has the campus residential facilities for teaching and non-teaching staffs. A main guesthouse and an alumni guesthouse available to cater the need of parents alumni and helpful for conducting seminars, workshop. State government has sanctioned 2000 crore through institute development plan for infrastructure improvement to cater 10000 students in future and convert the university to MERU as per NEP 2020.

#### **File Description**

#### **Document**

Provide the link for additional information

[View Document](#)

#### 4.1.2

**Percentage of expenditure excluding salary, for infrastructure development and augmentation**

year wise during the last five years

**Response:** 33.12

**4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
1300	1200	2100	1500	600

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1

**Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students**

**Response:**

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

The new library building is a three storied one having area of 10,90 sq. meter. The different sections of the library have been planned in different floors. The ground floor is used for the Circulation Section and the General book Bank. The first floor houses the Journal Section, Reference Section, Reprographic Section and the Administrative Section of the Library. The top floor is used for Text Book Section. There is a reading hall with capacity for 100 students in this floor. A portion of this floor is used for housing the SC/ST Book Bank. The Library remains open from 10 AM to 8PM on all working days of the week except in the hot summer months (April & May) during which there is a break from 1 PM to 2.30 PM.

The total acquisition of the Library is more than 70,000 volumes including Photostat and microfilms. About 70% of the total collection is of Engineering disciplines and balance 30% is of Science, Humanities and General reference type. The library has one microfilm reader for reading microfilms.

Our University is now a member of Indian National Digital Library in Engineering Science and Technology with financial support provided by the All India Council of Technical Education. As such online access to the journals of ASCE, ASME and IEL is available to all the members of the Library. Further under the auspices of the INDEST we have access to JET (J-Gate Engineering and Technology).

Due to financial constraints imposed by our finding authority (the Government of Orissa) we have been forced to discontinue subscription to all foreign journals from the Calendar year 2004. However, the Library subscribes to twenty-seven (27) National journals. The current periodicals are displayed in the Journal Hall of the Library.

Membership cards of students are renewed every year in the beginning of the academic session for which the students have to apply in the prescribed form available in the Library.

## Other Facilities

1. General Book Bank : There is a Book Bank attached to the library with 4000 books. Books from this library is loaned to the students for one year on payment of lending charges. The lending charges is 1/6 of the original price of the book.
2. SC/ST Book Bank : There is a SC/ST Book Bank with about 11,600 books. Books have been purchased from separate Govt. grants received from time to time. Books are loaned out to SC/ST students only for one academic year.
3. Reprographic Facilities : The library is having at present one heavy duty Xerox Machine and its facilities are extended to all the members, on payment of Rs. 1 Rupee per page.

E-journal subscription for the university covers wide variety of journals from reputed publishers such as Elsevier, Springer and Taylor and Francis. The university is a permanent member of DELNET.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

### 4.2.2

#### Percentage of expenditure for purchase of books/ e-books and subscription to journals/e-journals year wise during the last five years

**Response:** 4.63

4.2.2.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
98.73	106.66	125	195.5	410

File Description	Document
Institutional data in the prescribed format	<a href="#">View Document</a>

### 4.3 IT Infrastructure

#### 4.3.1

**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection**

**Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words**

**Response:**

The university currently has two ISPs provider and bandwidth provided by the ISPs providers having a dedicated internet connectivity of 2 Gbps as follows:

1Gbps Internet connectivity from BSNL

1Gbps Internet connectivity from SIFY

Dedicated 600 desktop terminals with Ethernet connection are available for the students. All regular faculties are provided with laptop to cater their reaserch need.

The controller and access points are used in the Hostels of the University to provide uninterrupted internet access to the students for their academic and research work. Wi-Fi and LAN is provided to the academic and administrative buildings for faculty and staff members for their research and administrative work.

OFC / Ethernet connection from CIF Cell to all campuses. It is a secure network and each user has authentication for accessing our network. The networking switches are used at different campuses. The network backbone is attached as below.

Security arrangements: As far as the security is concerned VSSUT provides the security at different levels of distribution to the client level. It has Core Layer switch, Firewall and CISCO controller for protecting students and staffs members from being affected from any DOA attack, hacking from outside and inside VSSUT. It also prevents malware and virus attacks. Intrusion Prevention System threat-detection, URL filtering, Web content filtering, application filtering, and signature based filtering.

File Description	Document
Upload any additional information	<a href="#">View Document</a>

**4.3.2**

**Student - Computer ratio (Data for the latest completed academic year)**

**Response:** 7.7

**4.3.2.1 Number of computers available for students usage during the latest completed academic year:**

Response: 600

<b>File Description</b>	<b>Document</b>
Stock register/extracts highlighting the computers issued to respective departments for student's usage	<a href="#">View Document</a>

**4.3.3**

**Institution has the following Facilities for e-content development and other resource development**

- 1.Audio visual center, mixing equipment, editing facilities and Media Studio**
- 2.Lecture Capturing System(LCS)**
- 3.Central Instrumentation Centre**
- 4.Animal House**
- 5.Museum**
- 6.Business Lab**
- 7.Research/statistical database**
- 8.Moot court**
- 9.Theatre**
- 10.Art Gallery**
- 11.Any other facility to support research**

**Response:** D. Any 3-4 of the above

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure****4.4.1**

**Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years**

**Response:** 99.99

**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year - wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
8604	2326	3256	3789	2255

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

**4.4.2**

**There are established systems and procedures for maintaining and utilizing physical and academic support facilities – laboratory, library, sports complex, computers, classrooms etc.**

**Describe policy details of systems and procedures for maintaining and utilizing physical, academic and support facilities within a maximum of 500 words**

**Response:**

The university has established a clear policy and framework for maintaining and utilizing all of its physical and academic resources.

**Classroom Management:**

Management of the classroom, recognized as the fundamental and pivotal workspace, adheres to established systems and procedures recommended by the University, aligning with contemporary teaching and learning practices. Equipped with modern technology such as smart boards, microphone systems, and other resources, classrooms foster effective teaching environments. To ensure safety and security for all students, teachers, and equipment university gate is equipped with CCTV surveillance. Regular property inventory, cleaning, and maintenance routines are conducted, supplemented by Annual Maintenance Contracts (AMCs) for all modern teaching technologies. A structured reporting system for repairs and replacements further underscores effective classroom management, which is integral to the university's operational framework.

**Laboratory:**

The laboratory policy serves as the cornerstone of the institution's operations, particularly with its eleven engineering departments and three science departments. With numerous instruments and equipment in place, maintenance is ensured through Annual Maintenance Contracts (AMCs). Safety measures are prioritized with the strategic placement of laboratory safety showers, eyewash stations, and fire extinguishers to minimize casualties. Furthermore, general instructions outlining safe and secure

laboratory usage for students are prominently displayed in each lab, reinforcing a culture of safety awareness.

**Library:**

To ensure the smooth operation of the library and meet the diverse information needs of its patrons, it is organized into five distinct sections, each with its own defined identity and standardized procedures:

1. Acquisition/Processing Section
2. Circulation Section
3. Serial Section
4. Reference Section
5. ICT and Digital Section

The library employs its own mechanisms and systems to identify purchases based on the courses offered and to assess the facilities required for students and staff. These practices generally adhere to institutional policies and guidelines established by the parent body.

Yearly statistics on the utilization of library resources inform the library's collection development policy. Periodic withdrawal of books and other materials that are no longer relevant for current references is conducted, following a procedure initiated by a General Resolution (GR) signed by the Library Committee and the Head of the Institute.

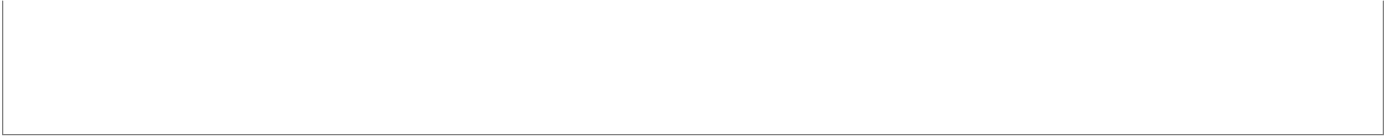
**Sports:**

The Sports Committee is responsible for the upkeep of the sports ground and equipment. It coordinates various indoor and outdoor sports competitions for students at both intra and interuniversity levels, fostering holistic development by encouraging student participation. Coaches are appointed for events with significant student representation, subject to approval from the higher authority of the university.

The celebration of International Yoga Day has become a regular event, drawing participation from many students and staff. Additionally, the Internal Quality Assurance Cell (IQAC) establishes policies concerning workshops, seminars, and conferences for students and staff across faculties.

The university website serves as a platform to familiarize users with the university's operational framework and invites suggestions for enhancing efficiency in work processes.

All the computers are equipped with softwares with latest technologies such as MATLAB, Ansys, XILINX Vivado, Autocad, Cadance, Symica, Visual TCAD, HFSS, Multisim, CAD-CAM, Pro-e, Protius etc.





## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1

**Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years**

**Response:** 12.52

**5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and (NGOs)non-government bodies, industries, individuals, philanthropists year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
1216	976	250	236	233

#### File Description

#### Document

Upload Sanction letter of scholarship and free ships (in English).

[View Document](#)

Institutional data in the prescribed format (data template)

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

#### 5.1.2

**Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations during the last five years**

**Response:**

Students of Veer Surendra Sai University of Technology (VSSUT) have been privileged enough, because the university provides various opportunities for the welfare of the students to outshine in other fields apart from academics. Every year, the students take winter and summer internships in different organizations. This helps nearly 90 % of the students placed every year in these reputed organizations. The students are also imparted the new version of soft skills such as Team Management, Leadership, Group discussion, Resume building, and Interview preparation to sharpen their career development skills. These practices help the students to learn and developing their Personality Development, which increases the employability of the students. Apart from this ISTE, SAE, ASME, IIC, VSSIC, IEEE, IEI Professional Society Chapters and various club activities are launched in the college for the holistic

development of the students. Since a regular degree is not going to be suffice, We Provide several soft skills training programmes through Rubicon. The students also attend the special coaching classes for GATE, I.A.S, I.P.S, GRE, TOEFL examinations with a view to excel in other professions also. Research activities are also encouraged by the R&D Cell under the stewardship of PIC Research and so many students have come out successful in their respective research fields. Department of Science and Technology, Govt. of India, New Delhi has recognized VSSUT as a Scientific and Industrial Research Organization for the improvement of the emerging Entrepreneurs. The students take their chances through innovative projects, with an objective of becoming an active Entrepreneur. The students are also members of IQAC. Further, to address their concerns pertaining to academics, Class Representatives meetings are conducted thrice in a semester in the presence of concerned HoD, faculty, Registrar, Dean Academics and Vice Chancellor of the university. Apart from this, the students are motivated through the self – learning aspect in the Library and Digital Library. The students also actively participate in HACKATHON, SYMPOSIUM, WORKSHOPS, and have proved their mettle by winning many national level awards. International conferences have also been organized and the students have also actively participated in these events to explore new horizons of learning. Effective student council is operational at VSSUT. It is an initiative to harness leadership skills amongst the students. The student led body undertakes responsibility in organizing various events, discipline students and bring accountability in their sphere of allocated duties. The Class Representative (CR) system is fundamental to student representation as leaders. It allows one male and one female student to represent each class in the University, with meetings at regular intervals to ensure the system's efficiency and effectiveness in putting forward the interests and views of the students. Technical/ Functional/ University Club/ Committees elect President, Vice Presidents, Member Secretary and Treasurer position, where students organize domain specific events, extra-curricular events (non domain specific), competitions and conferences honing their subject expertise skills in addition to their leadership skills. Club/ Committee activities, workshops, Intra-Domain and Inter-University competitions enhance the communication skills, team management skills, leadership skills, time-management, resourcemanagement skills and above all build confidence in each student through the Club/ Committee platform, provided by the Institution/ University, students learn to do practical implementation of the classroom learning.

File Description	Document
Provide the link for additional information	<a href="#">View Document</a>

### 5.1.3

**Following capacity development and skills enhancement activities are organised for improving students' capability**

- 1.Soft skills**
- 2.Language and communication skills**
- 3.Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)**
- 4.Awareness of trends in technology**

**Response:** A. All of the above

File Description	Document
Report with photographs on soft skills enhancement programs	<a href="#">View Document</a>
Report with photographs on Life skills (Yoga, physical fitness, health and hygiene) enhancement programs	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

#### 5.1.4

**The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases**

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

**Response:** A. All of the above

File Description	Document
Proof related to Mechanisms for submission of online/offline students' grievances	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Details of statutory/regulatory Committees (to be notified in institutional website also)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1

**Percentage of placement of outgoing students during the last five years**

**Response:** 47.29

**5.2.1.1 Number of outgoing students placed year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
679	657	493	460	409

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order (the above list should be available in institutional website)	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 5.2.2

**Percentage of graduated students who have progressed to higher education year-wise during last five years**

**Response:** 17.57

#### 5.2.2.1 Number of outgoing students progressing to higher education

2022-23	2021-22	2020-21	2019-20	2018-19
68	28	120	210	215

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 5.2.3

**Percentage of students qualifying in state/ national/ international level examinations out of the graduated students during the last five years**

(eg: NET/SLET/ Civil Services/State government examinations etc.)

Response: 21.27

5.2.3.1 *Number of students qualifying in state/National/International level Examination during last five years (eg. SLET, NET, UPSC etc)*

Response: 1350

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

#### 5.3.1

*Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national/international events (award for a team event should be counted as one) during the last five years*

Response: 91

5.3.1.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/ national/international level (award for a team event should be counted as one) year-wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
26	11	50	2	2

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>

#### 5.3.2

**Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.**

**Describe the Student Council activity and students' role in academic & administrative bodies within a maximum of 500 words**

**Response:**

The University has different societies such as (i) Cultural society, (ii) Technical Society, (iii) Sports society, (iv) Social service. Vice-Chancellor or his nominee acts as the President. Senior faculty members are nominated as Vice-Presidents of the societies. Different clubs, associations, events are organised under above societies with the guidance of faculty advisors. Student representatives such as Secretaries and Assistant Secretaries were selected by personal interview based on the CGPA they had secured in their last qualifying examination and performance in interview for smooth operation of all clubs, different events and activities. The Secretaries are responsible for the functioning of their respective clubs, societies and association for which they are selected. Every year the fees collected from the students in the heads of the respective clubs, societies and association are transferred to the respective Vice-Presidents accounts for the functioning of the same. The objectives of the societies are (a) To organize competitions on cultural events. (b) To organize discussion on general, technical, cultural, academic, national and international issues. (c) To invite eminent persons for guest lectures. (d) To take up such other activities as are approved by the Vice-Chancellor. (e) To promote cooperation amongst present and former students. (f) To organize Annual Techno-Cultural Festival of 'VSSUT' (g) To celebrate and witness different festivals on international/national/state observe days.

**Cultural Society:** There are different clubs under the cultural societies to organize different cultural events such as Audio Visual Club, Literary Society, Souls and Vibranz, Emotica, Quiz, Art and Photography, Galaxy, and Vassaunt.

**Audio Visual Club:** Audio Visual Club provides entertainment to students and staff members, by way of screening Hindi/English/Oriya films once or twice a week. **Literary Society:** (a) To promote literary activity amongst the students (b) To prepare and arrange for publication of the University magazine. **Souls and Vibranz:** The function of this club is provide an opportunity to the students of the University to develop their musical and dance talents and other cultural activities. **Emotica:** The function of dramatic association is to present theatrical performances and variety shows etc. which exploit and develop musical and historic talents of the students. **Quiz:** The function of Quizzine is to develop the soft skills of students through quiz competitions. **Art and Photography:** (a) To organize competitions on different categories of art and photography like pencil sketches, colour painting etc. (b) To organize art and photography competitions. **Galaxy:** Publication of Souvenir "Galaxy" for outgoing B.Tech/M.Tech/M.Sc./MCA students. **Vassaunt:** To organize the annual cultural festival of the university

**Students Technical Society:** There are different clubs under the cultural societies to organize different cultural events such as Samavesh, IDEA and Innovation cell, EDP, Robotics, and Web & Coding cell to organize different technical events, to nourish the ideas of the students, to promote entrepreneurship, to enhance robotic skills respectively.

**Sports Societies:** To conduct the sports and athletic tournaments of the University. To arrange and supervise participation of the University teams in the various student-teacher friendly matches, inter Hall /inter class competitions, inter University, inter state sports and athletic meets.

**Social Service Society:** There are different organizations such as SSG, NSS, Sanskar Kendra

The students represented as member in the following 1) Academic Council, 2) Placement Committee, 3) Anti-ragging Committee, 4) Anti-ragging Squad, 5) Ragging prevention committee, 6) Disciplinary

committee, 7) Hall Anti ragging Committee

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 5.3.3

**The institution conducts / organizes following activities:**

- 1.Sports competitions/events**
- 2.Cultural competitions/events**
- 3.Technical fest/Academic fest**
- 4.Any other events through Active clubs and forums**

**Response:** A. All four of the above

File Description	Document
Report of the Technical fest/academic fests along with photographs appropriately dated and captioned year- wise.	<a href="#">View Document</a>
Report of the Sports competitions/events along with photographs appropriately dated and captioned year- wise.	<a href="#">View Document</a>
Report of the Cultural competitions/events along with photographs appropriately dated and captioned year- wise.	<a href="#">View Document</a>
Report of the Any other events through active clubs and forums along with photographs appropriately dated and captioned year- wise.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1

**Alumni contribution during the last five years to the University through registered Alumni**

**Association****Response:** 16.6**5.4.1.1 Total Amount of alumni contribution during the last five years (INR in lakhs) to the institution year wise through registered Alumni association:**

2022-23	2021-22	2020-21	2019-20	2018-19
3	5	5	1.8	1.8

File Description	Document
List of alumnus/alumni with the amount contributed year-wise	<a href="#">View Document</a>
Annual audited statements of accounts of the HEI highlighting the Alumni contribution duly certified by the Chartered Accountant/Finance Officer.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**5.4.2****Alumni contributes and engages significantly to the development of institution through academic and other support system****Describe the alumni contributions and engagements within a maximum of 500 words****Response:**

The university has a registered Alumni Association with more than 40000 active members spread across different parts of globe. For smooth coordination of Alumni affairs the university has a office of Dean, Alumni and International Relations (AIR). Two number of members from Alumni are nominated to the Board of Management, the highest executive council of the university.

Objectives of the Alumni Association:

1. Foster and enhance close connections among the alumni, as well as between the alumni and the Institution. Alumni constantly persue at state and Central Government levels for more and more financial aid as well as of the Institute and extends support for the welfare and development of the student community. As a nodal system, it encourages department level alumni meetings. The university Alumni association and the local chapter arrange for increased interaction with industry for providing industrial exposure to the Institute for higher education, development of chapter and to become good citizens of our country.



2. Alumni have contributed funds to support economically disadvantaged and meritorious students at the Institution.
3. Alumni actively participate as members in the Board of Studies across all departments, attending college meetings to interact with teachers and provide input on curriculum revision.
4. Alumni regularly deliver guest lectures to current students, sharing insights on contemporary technological developments and providing guidance on career choices.
5. The Alumni are generating corpus for supporting the economically backward students, development of infrastructure, development of Centre of Excellences etc.
6. The Alumni provides internship, provide regular training and provide guidance and mentorship to the students for placement.
7. The Alumni provides suggestions for strategic development of the university

Activities and Contributions: 1. Alumni have contributed funds to support economically disadvantaged and meritorious students at the Institution. 2. Alumni actively participate as members in the Board of Studies across all departments, attending college meetings to interact with teachers and provide input on curriculum revision. 3. Some alumni have delivered guest lectures to current students, sharing insights on contemporary technological developments and providing guidance on career choices.

File Description	Document
Provide the link for additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1

**The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.**

**Response:**

**Vision:**

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

**Mission :**

The Veer Surendra Sai University of Technology, Odisha, Burla strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need-based research through

- Participative learning in a cross-cultural environment that promotes learning beyond the classroom.
- 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 wherever appropriate.
- Expanding curricula to cater to broader perspectives.
- Creation of service opportunities for the upliftment of the society at large.

**NEP implementation:** As per the requirement of the Government of India, NEP has been implemented in the university with effect from July'2023.

In this context,

- A tentative course structure of the UG Programme was proposed by the committee considering the regulations and model curriculum suggested by the AICTE, through a meeting held on 02.08.2023.
- A workshop on “Implementation of New Course Structure of B.Tech Programme as per NEP for the Academic Year 2023-24” is conducted on 12.08.2023 inviting two experts from NIT, Rourkela for any rectifications and modifications in the proposed tentative course structure and syllabus as per NEP.

- The proposed course structure of 1st year UG Programme is finalized through a meeting held on 25.08.2023 by the NEP committee of the university.
- The finalized course structure of 1st year UG Programme is placed and passed in the 33rd Academic council meeting of the university

**Decentralization and participative management:**

- All decision-making processes are participatory. The highest decision-making body of the university is the Board of management consisting of representatives from faculty members nominated by the Vice-chancellor and Academic Council, a member nominated by AICTE and UGC, two representatives from members of Odisha, Legislative Assembly, and Chancellor’s nominee from a reputed institute, Chancellor’s nominee from Alumni of the university, Vice-Chancellors of BPUT Odisha, Director, Technical Education & Training, Odisha, Principal Secretary of SDTE, Govt. of Odisha.
- Academic council is the highest decision making body related to academic matters of the university that consists of Vice-chancellor as the chairman, all Deans of the University, Heads of all the departments, student and faculty representatives from each departments, and external experts from other higher learning institutes as members. Based on the inputs/feedbacks received from all the stakeholders, the academic council periodically reviews the existing curriculum and redesign it as per the recent need of the industry and society.
- The University constitutes internal and external members for the Board of studies (BOS) for each department. The BOS consists of representatives of faculty members from each department as internal members, academicians from NITs, IITs or other higher learning institutes and industry personnel as external members. The head of the department acts as chairman exofficio for the BOS. BOS takes decisions related to academic matters at the department level, reviews existing syllabus and suggests for modification and implementation of new courses at the department level.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

**6.2 Strategy Development and Deployment**

**6.2.1**

**The institutional perspective plan is effectively deployed and functioning of the institutional bodies are effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc**

**Response:**

For the all-around growth of the University, an Institutional Development plan is submitted periodically

to the SDTE, Govt. of Odisha for approval and financial support. During the last five years, the university has set up a central research facility(CRF) lab with a state-of-the-art facility. The faculty and students are now able to perform high-quality research without relying too much on outside institutes/Labs.

The university has set up an eight-stored state-of-the-art building to cater for the needs of the students which is expected to be completed and fully functional by the end of 2026. With a government grant declaration of two thousand crore rupees, the university is going for a complete transformation shortly. The university has already sent proposals to the govt. of Odisha for setting up centres of excellence/advanced Technology Labs in different departments and schools which are to be set up shortly.

- The University has well-documented policies for each committee. Seed grant funds, Consultancy, Academic Council and other statutory committees function according to provisions laid down in the statutes.
- The University has well-defined service rules, accounts manual and other regulations as prescribed by AICTE, UGC and the Government.
- Different committees like the Finance Committee, Purchase Committee(both at the department and university level), Central Library Committee, Project Monitoring Committee etc are there to execute and monitor various activities of the university.
- The appointments of staff and faculty members are based on the guidelines laid down in the statute which is periodically modified as per the AICTE/UGC guidelines.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 6.2.2

**Institution implements e-governance in its operations. e-governance is implemented covering the following areas of operations:**

- 1.Administration including complaint management**
- 2.Finance and Accounts**
- 3.Student Admission and Support**
- 4.Examinations**

**Response:** A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	<a href="#">View Document</a>
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 6.3 Faculty Empowerment Strategies

#### 6.3.1

**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**

**Response:**

- The institution has a performance appraisal system where both internal and external experts evaluate the performance of the faculty members at the end of the academic year. From time to time the appraisal forms are revised to make the evaluation process more effective, holistic and free from biases.
- Similarly, there are performance appraisal systems for teaching and non-teaching staff of the university where the performance of the staff is reviewed annually.
- Selected faculty members are felicitated with Best Faculty awards with prize money as a token of appreciation for their all-around performance.
- Faculty welfare measures such as group health insurance schemes are introduced to lessen the financial burden during medical emergencies.
- With a proactive initiative by our university, the government of Odisha has made amendments to the existing rules for the implementation of the family pension scheme in case of any mishappenings.
- Faculty members are deputed for higher study to institutes of national importance through QIP Schemes with full financial support and other associated service benefits.
- The university conducts seminars and talks regularly to enrich and broaden the knowledge of faculty and staff members.
- The Faculty members are encouraged to attend FDPs/STTPs/Workshops/Conferences/seminars/symposiums to interact with the outside world for overall growth.
- Career Advancement Scheme (CAS) for the faculty members and Modified Assured Career

Promotion (MACP) for non-teaching staff are implemented.

- Non-teaching staff are also provided options for higher studies and training.
- Loan facilities are available for employees.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 6.3.2

**Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years**

**Response:** 18.2

**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
31	32	29	26	111

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 6.3.3

**Percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDPs)/ Management Development Programmes (MDPs) during the last five years**

**Response:** 81.32

**6.3.3.1 Total number of teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP) during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
101	124	400	252	146

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
E-copy of the certificates of the program attended by teachers.	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1

#### **Institutional strategies for mobilisation of funds other than salary and fees and the optimal utilisation of resources**

**Describe the resource mobilisation policy and procedures of the Institution within a maximum of 500 words**

#### **Response:**

- The primary sources of revenue are financial grants from the government.
- Funding from sponsored research and consultancy from different central and state government agencies.
- Consultancy from industry
- Funds, collected from the above sources are used for infrastructure development and maintenance, conduct of examinations, financial assistance to faculty members for attending conferences, and workshops, medals and awards, to promote sports & infrastructures, and to conduct project-based research.
- Funding under TEQIP has been utilized for the development of the university and providing assistance to faculty and students and procurement of laboratory equipment.
- The university has received significant funds under the Govt. of India RUSA scheme which has been utilized for the development of the university.
- Recently, the Govt. of Odisha has sanctioned 2000 crores for the development of the university into a multi-disciplinary and research university.

File Description	Document
Provide the link for additional information	<a href="#">View Document</a>

**6.4.2**

**Funds / Grants received from government bodies/non government and philanthropists during the last five years for development and maintenance of infrastructure (not covered under Criteria III and V )**

**Response:** 52945

**6.4.2.1 Total Grants received from government and non-government bodies and philanthropists for development and maintenance of infrastructure (not covered under Criteria III and V) year-wise during the last five years (INR in Lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
11961	11575	8914	9275	11220

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Copy of the sanction letters received from government/ nongovernment bodies and philanthropists for development and maintenance of infrastructure	<a href="#">View Document</a>
Annual audited statements of accounts highlighting the grants received.	<a href="#">View Document</a>

**6.4.3**

**Institution regularly conducts internal and external financial audits regularly**

**Enumerate the various internal and external financial audits carried out during the last five years with the mechanism for settling audit objections within a maximum of 500 words**

**Response:**

The University has an efficient mechanism of internal and external audits of all auditable accounts/expenditures in line with the rules in the Odisha University Accounts Manual (OUAM).

**Internal Audit**

An internal Audit is conducted by the internal auditors of the University before the finalization of payments. Generally, expenditures worth Rs. 15,000/- and above are subjected to Pre-Audit as per the rules of the Department of Finance, Government of Odisha.



**External Audit**

The accounts of the University are subjected to the Local Fund Auditor (LFA), Department of Finance, Government of Odisha and as per the statutory provisions made by the Accountant General, Government of India. The University also gets its accounts audited by external agencies like authorized Chartered Accountants as per the guidelines of central funding agencies like UGC, DST, SERB and others whenever necessary.

File Description	Document
Provide the link for additional information	<a href="#">View Document</a>

**6.5 Internal Quality Assurance System****6.5.1**

**Internal Quality Assurance Cell (IQAC)/ Internal Quality Assurance System (IQAS) has contributed significantly for institutionalizing the quality assurance strategies and processes, by constantly reviewing the teaching-learning process, structures & methodologies of operations and learning outcomes, at periodic intervals**

**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of –**

- **Incremental improvements made for the preceding five years with regard to quality (in case of first cycle)**
- **Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)**

**Describe two practices institutionalized as a result of IQAC initiatives within a maximum of 500 words**

**Response:**

The University has an Internal Quality Assurance Cell (IQAC) in consonance with the UGC guidelines for the National Assessment and Accreditation Council (NAAC). This Cell ensures sustenance and enhancement of the quality of the academic and administrative functioning of the University. The primary objectives of IQAC are to audit the academic and administrative performances at the micro and macro levels and to catalyze reforms and implement various directives by the regulative educational agencies at the national and State levels for the proper academic growth of the University.

The IQAC was instrumental in introducing student feedback in a structured manner both on the quality of teaching imparted as well as on course structure modification to ensure that the teaching-learning process is more effective. IQAC has also initiated the process of taking feedback from other stakeholders such as Alumni, employers and parents.

The IQAC has conducted the performance audit of various departments in the prescribed format of

Performance Appraisal Report(PAR) of the faculties and the Annual Quality Assurance Reports (AQAR) of the Departments to make sustained efforts for improvements in the standards of teaching and research; encourage them to raise their professional skills, capacities, motivational levels; review the functioning of Departments and their infrastructure, facilities and programmes; encourage the faculty to bring about innovations in the curricular and so on.

The university is trying to implement the suggestions made by IQAC towards quality improvement. Some of the recent suggestions are outlined below:

- Analysis and action taken on structured feedback from different stakeholders shall be uploaded to the university website by the 31st of August of each year.
- To identify slow, average and fast learners.To take extra classes for slow learners to enhance their learning capacity.
- For smooth movements of differently-abled persons, wheelchairs shall be provided. Provision of Lift to be made at the central place of the existing building.
- It is proposed to generate green energy through solar power and to enhance groundwater recharge through rainwater harvesting.
- It is proposed to invite resource persons from the industry to deliver one or two lectures for a particular subject in a semester. The modality for the same is finalized by the Dean SRIC of the university.
- Provisions are to be made in the SAMARTH portal to upload CO, PO, PEO and PSO for different subjects while uploading the marks for the result publication.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

### 6.5.2

**Institution has adopted the following for Quality assurance:**

- 1.Academic and Administrative Audit (AAA) and follow up action taken**
- 2.Conferences, Seminars, Workshops on quality conducted**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Orientation programme on quality issues for teachers and students**
- 5.Participation in NIRF and other recognized ranking like Shanghai Ranking, QS Ranking Times Ranking etc**
- 6.Any other quality audit recognized by state, national or international agencies**

**Response:** A. Any 5 or more of the above

File Description	Document
List of Orientation programmes conducted on quality issues for teachers and students along with geotagged photos and supporting documents	<a href="#">View Document</a>
List of Conferences / Seminars / Workshops on quality conducted along with brochures and geo-tagged photos with caption and date.	<a href="#">View Document</a>
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 6.5.3

#### **Incremental improvements made for the preceding five years with regard to quality (in case of first cycle NAAC A/A)**

#### **Post accreditation quality initiatives (second and subsequent cycles of NAAC A/A)**

#### **Response:**

**Appointments:** The university has initiated the process of selection for the recruitment of faculty and staff. Efforts have been made to ensure that the selection process is free from bias and that quality faculty staff are inducted.

**Research projects, consultancy and collaboration:** Faculty members are regularly encouraged to apply for projects. To oversee the research and consultancy activities, the university has a dedicated cell called Sponsored Research and Industrial Consultancy (SRIC). Through TEQIP III, many faculty members were granted seed funds to support their research activities. A Central Research Facility Lab(CRF) has been developed to conduct high-end research in related areas of material science and engineering-

**Soft skill development of the students:** Soft skills training sessions are being arranged by the placement cell for the overall growth of the students. Students are also being trained in different technologies with the support of the Govt. of Odisha and Govt. of India for better employability.

**Placement Cell activities:** The placement cell operates from a newly constructed building equipped with the latest facilities. A full-time placement officer along with faculty coordinators from various departments and supporting staff, looks after the placement activities. A major portion of students have been placed in reputed companies through on-campus and off-campus recruitment drives.

**Smart Classrooms:** The majority of classrooms are now equipped with smart boards with internet

facilities, and an uninterrupted power supply to provide a seamless teaching-learning experience more creatively and effectively. The students are now able to access the earlier lectures saved on the smart board which helps to recap any missing concepts discussed in a particular class.

**Initiation of E-governance:** The university has initiated e-governance through the Samarth portal. The leave application, salary details of employees and student mark entry is managed by the Samarth portal, whereas steps are being taken to include administrative processes and accounting in the portal.

**Formation of Student Grievance Redressal Committee:** A student grievance redressal committee is formed by the university to address any grievance represented by a single or a group of students. A list of various levels for addressing the issues of grievances is outlined on the university website.

**Implementation of NEP:** As per the requirement of the Government of India, NEP has been implemented in the university with effect from July'2023.

**Introduction of Student Activity Centre (SAC):** A dedicated student activity centre building was constructed three years back and is fully functional now. Various clubs (Technical, cultural and sports clubs) are functioning in the SAC building. For the recreation of students and their physical well-being a swimming pool, and badminton courts are constructed by the university.

**Induction of new students club:** Idea Innovation Cell is the official innovation club of the institute, established to enthuse students for innovation and research. The club provides adequate opportunities for budding technocrats to put forth extraordinary ideas and come up with innovative projects that can solve basic community problems of daily life.

**Alumni outreach:** The university alumni association is instrumental in upgrading the status of the institute from a college to a university and mobilised resources for the betterment of the university. Further, to make the interaction more proactive and to connect more alumni, a dedicated office is instituted in the university and a Dean is appointed by the university for the above purpose.

File Description	Document
Provide the link for additional information	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1

**Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.**

**Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words**

**Response:**

The Institute has an Internal Complaint Cell to readdress the complain regarding unlawful discrimination, harassment, victimization and any other conduct that affects equality. The Institute also sensitizes all the employees and celebrates International Women's Day every year on 8th March inviting woman entrepreneurs, leaders, and administrators inspiring with their motivational talk. The students also play skits or dance on such issues to raise awareness. After admission, the new students are sensitized by regular sessions within the induction and orientation programs. The details regarding this is available in following link

Veer Surendra Sai University of Technology - VSSUT

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide the link for additional information	<a href="#">View Document</a>

#### 7.1.2

*The Institution has facilities for alternate sources of energy and energy conservation measures*

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment
6. Wind mill or any other clean green energy

**Response:** A. Any 4 or more of the above

File Description	Document
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 7.1.3

**Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)**

- **Solid waste management**
- **Liquid waste management**
- **Biomedical waste management**
- **e-Waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

**Response:**

Solid waste is segregated as bio-degradable and non-degradable and handed over to Sambalpur Municipal Corporation (SMC) as part of the Swachh Bharat initiative from the university halls of residence and staff quarters. In the institute also similar segregation is done in different dust bins in the cafeteria, canteens, toilets and corridors and disposed of in a similar manner. Workshops and awareness programmes are organized in the university. Posters are put in different locations “say no to plastic”. In the first week of October mass cleanliness drive involving all students, staff, cleaning staff and security is organized to make students aware of reducing garbage dumped here and there. The waste sewerage water is collected in well-constructed drains and are maintained regularly to prevent waterlogging. The electronics wastes from circuit components, old machines and PCs are disposed of after proper documentation and write-off through tender calls and approval (<https://vssut.ac.in/doc/Minutes-42nd-BOM.pdf>). The students are involved in research for recycling and upcycling of waste such as waste paper, and construction of building materials from waste such as fly ash, polythene etc. Old batteries used for backup up are strategically exchanged during new purchases instead of disposing as waste. The institute has also taken initiative to process green waste from halls of residence to make it manure on the site by installation of a composting machine.

File Description	Document
Geo-tagged photographs of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View Document</a>

**7.1.4****Water conservation facilities available in the Institution:**

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**
- 4. Waste water recycling**
- 5. Maintenance of water bodies and distribution system in the campus**

**Response:** A. Any 4 or more of the above

<b>File Description</b>	<b>Document</b>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Green audit reports on water conservation by recognised bodies	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**7.1.5****Green campus initiatives include**

**Describe the Green campus initiative of the institution including Restricted entry of automobiles, Use of Bicycles/ Battery powered vehicles , Pedestrian Friendly pathways , Ban on use of Plastic, landscaping with trees and plants etc in 500 words**

**Response:**

Keeping in mind the safety of students and residents, the students are banned from plying power-driven vehicles (two wheeler/four wheeler) inside as well as outside the campus. (It is included in the rules for halls of residence (xix) in information brochure available (<https://vssut.ac.in/INFORMATION%20BROCHURE-19-20.pdf>)). Day boarders are also asked to park outside academic campus of the University in designated parking area. Unauthorised entry of vehicles is prevented at the main gate by security personnel. Check point is there at the main gate. Use of bicycles is encouraged in the campus. Students and faculty members also use bicycles. The Campus is beautifully maintained and big shady plants make the pedestrians comfortable moving inside the academic campus on foot even during summer. (Ref Pedestrian photo). The plantation drive is taken up to plant more trees on the public roadsides, where some big trees were cut down during road widening. Campus residents as well as shop owners are advised time and again not to use plastic bags and plastic disposable glasses and plates. The Social Service and Guides (SSG) Society has put up boards to sensitize students.

In VSSUT the roads inside the academic campus has trees on their sides. The canteen area is covered with big Caesalpinia trees known for its natural green. In the spring the roads have a mesmerizing view

covered with yellow flowers. Sitting places are created beneath the trees around the academic campus. Lawns and gardens are developed from rainwater harvested. Besides this, different parts of the campus are properly landscaped with potted plants seasonal floral and other decorative plants such as the rose garden, central garden in the boys halls of residence, garden in Rohini, Arundhati hall of residence and Anuradha Hall of residence etc. In the campus expansion, the plantation is being carried out in a planned way. All the roads inside academic blocks are covered with trees on their sides. The faculty quarters are also covered with big fruit-bearing plants such as mango, jack fruit etc. Recently, the institution has been awarded for outstanding performance for plantation/ afforestation from Department of Forest Environment and Climate Change, Govt. of Odisha on World Forestry Day.

File Description	Document
Policy document on the green campus/plastic free campus.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 7.1.6

**Quality audits on environment and energy are regularly undertaken by the institution**

**The institutional environment and energy initiatives are confirmed through the following**

- 1.Green audit / Environmental audit**
- 2.Energy audit**
- 3.Clean and green campus recognitions/awards**
- 4.Beyond the campus environmental promotion and sustainability activities**

**Response:** A. All of the above



File Description	Document
Report on environmental promotional activities conducted beyond the campus with geo-tagged photographs with caption and date	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Green audit report of all the years from recognized bodies	<a href="#">View Document</a>
Certificates of the awards received from recognized agency (if any).	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

### 7.1.7

*The Institution has Differently-abled (Divyangjan) friendly, barrier free environment*

*Write description covering the various components of barrier free environment in your institution in maximum of 500 words*

- **Built environment with Ramps/lifts for easy access to classrooms**
- **Divyangjan friendly washrooms**
- **Signage including tactile path, lights, display boards and signposts**
- **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- **Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading**

#### **Response:**

##### **1. Ramps**

Most of the blocks have ramps for easy access of students. (Refer geotagged Ramps in e-learning and main building administrative block and academic section)

##### **2. Disabled-friendly washrooms**

For both male and female divyangjan friendly wash rooms are available.

(Ref. geotagged photo of wash room for disabled persons)

**3. Signage including tactile path lights, display boards and signposts**

Signage has been put in for accessing facilities for divyangjan.

(Ref. Sign posts all photos)

**4. Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc.**

Wheelchair facility is provided at the main gate and administrative block to use on need.

(Ref, Photo of wheel chair facility)

File Description	Document
Upload supporting document	<a href="#">View Document</a>

**7.1.8**

**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and such other diversities (within 500 words).**

**Response:**

VSSUT is committed to being inclusive and has a diverse population of students, faculty and staff hailing from different parts of the state. The Institute makes proactive efforts to provide an inclusive environment for its students without any discrimination. The initiatives are also taken to promote better education, economic upliftment of the needy, and set communal harmony. Under the SSG society, the students of VSSUT are involved in Sanskar Kendra in near by Kirba village. They engage in teaching the economically weaker school children in the evening, preparing them to build confidence, conducting science experiments, watching news, enriching general knowledge, career choices and excel in curricular and co-curricular activities. They celebrate Saraswati Puja and Gansh Puja in the Kendra. The institute has conducted lectures in the villages to increase their environmental and ethical awareness. The institute has also tested the level and quality of drinking water available in some of the villages in the industrial belt in Jharsuguda District. The extension activities are targeted towards enabling a holistic environment for student development. University has always been at the forefront of sensitizing students to the cultural, regional, linguistic, communal, and socio-economic diversities of the state and the nation. The University celebrates cultural and regional festivals like Youth Festival, Constitution Day, Aids day, Birthday of Veer Surendra Sai on 23rd January, Republic day, Balidan Diwas on 23rd March etc. to teach tolerance and harmony to the students. This year, on republic day special attention was the display of flex of different students clubs and start ups reporting their activities and achievements before the invitees, faculty and students. The students of Sanskar kendra also displayed cultural program. The Radha Krishna temple located at Professor Colony celebrates its Swanakhetra (Foundation day) every

year with a contributory feast to develop social bonding. The gender equality policy focuses on equal access, opportunities, and rights for all genders. The students have produced a short video BADLAV: The Transformation that shows the influence of Veer Surendra Sai in a student's life (<https://www.youtube.com/watch?v=iKEL1IykiBI>). Policy for the differently abled ensures that every single member of the university is aware of the care to be shown to the differently-abled people. By providing a barrier-free environment, needed facilities, and human and technological assistance, the institute makes continuous efforts to make the differently-abled feel included in every part of the activity.

File Description	Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

### 7.1.9

*Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens*

**Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.**

#### **Response:**

VSSUT undertakes different initiatives by organizing various activities to sensitize students and employees to the constitutional obligation: Values, Rights, Duties and responsibilities of the citizens.

The commemorative days such as Republic Day, Independence Day, the birthday of the freedom fighters Veer Surendra Sai and Netaji on 23rd Jan 2023 are celebrated at VSSUT. On such occasions, the roles of fighters for independence and the duties in independent India are discussed. Important occasions such as University Foundation Day, Independence Day plantation drives are celebrated involving students to know their duties towards a better future.

Professional ethics has been included in the curriculum as a subject to learn ethical values for turning out to be a good professional with strong morals as syllabus displayed in University website.

<https://www.vssut.ac.in/ug-syllabus-2019-20.php>

**The students are given responsibilities as secretaries of various clubs to learn leadership and work and connect with people.**

[https://www.vssut.ac.in/documents/notice\\_1674662814.pdf](https://www.vssut.ac.in/documents/notice_1674662814.pdf)

**(Documents attached)**

**Our constitution provides for human dignity, equality, social justice, human rights and freedom, the rule of law, equity and respect and the superiority of the constitution in national life. As a part of strengthening the democratic values, the students are always reminded of their duties before asking for rights in different forums.**

**International Yoga day is celebrated on 21st June to create awareness towards good health by Yoga. (Displayed on VSSUT webpage)**

<b>File Description</b>	<b>Document</b>
Details of activities that inculcate values necessary to nurture students to become responsible citizens	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

**7.1.10**

**The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

- 1. The institutional Code of Conduct principles are displayed on the website**
- 2. There is a committee to monitor adherence to the institutional Code of Conduct principles**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

**Response:** A. All of the above

<b>File Description</b>	<b>Document</b>
Policy document on code of ethics.	<a href="#">View Document</a>
Institutional data in the prescribed format (data template)	<a href="#">View Document</a>
Provide Links for any other relevant document to support the claim (if any)	<a href="#">View Document</a>

**7.2 Best Practices****7.2.1**

**Describe two best practices successfully implemented as per NAAC format provided in the Manual.**

**Response:**

A 1. **First Practice:** Transparency and timeliness in conduct of examination and result publication.

2. Objectives 1) To enable students pursue their volition and internship in time with on time publication of results 2) To minimize unnecessary litigation and ensure transparency.

3. The Context: The institute has a provision of showing answer scripts to students after each examination.

4. The Practice: After conduction of examinations, the examiners evaluate the copies by preparing a scheme of evaluation and answers to questions. After evaluation is over, before entering the marks in the portal, the teachers have to show the answer scripts to students.

5. Evidence of Success: Due to the process mentioned above, the litigation (w.r.t. to RTI and court cases) and grievances of students relating to examinations has come down to zero over the past years which used to be a major issue with the students. The examination date and the results publication is duly available on the website.

6. Problems encountered and resources required: The problems were mostly related to manpower availability in the examination section and examination automation process. However, the above issues were solved by outsourcing of staff and automation by SAMARTH portal. 7. Notes: The university has a policy of showing the evaluated answer scripts to students which saves unnecessary grievances related to the evaluation process

B1. **Second Practice:** Service to community through regular and emergency blood donation and imparting education to the underprivileged through Sanskar Kendra.

**2. Objective :**

The Social Service Guild (SSG) Society and Sanskar Kendra, since its inception has been an important and integral part of Veer Surendra Sai University of Technology, Burla in raising social awareness and engaging students in various social and community development programs.

**3. The Context**

The nearby villages provide the exact context for the SSG and Sanskar Kendra to organize various social welfare activities, render temporary financial assistance in the form of loans to the needy and deserving students, provide first aid facility during all the fests and events of the university, provide medical emergency to the needy students and temporary staff of halls of residences. There is a huge requirement of installation of dustbins, water coolers, and quotes in classrooms. Blood donation and other health and hygiene awareness are required for densely populated regions around the university.

#### 4. The Practice:

Mega Blood Donation Camps are organised every year in university campus with the help of VIMSAR Blood Bank Authority where students, faculty members and other on-Teaching staff of the university and nearby community donate blood. The SSG Society organises Health Awareness Camps and surveys in nearby villages by giving adequate preventive measures about diseases as well as in VSSUT campus on various deadly diseases such as Cancer, AIDS etc.

Evening classes at Sanskar Kendra are taken by the boys of VSSUT according to the timetable. Usually, there are two to three classes a day. Weekly Sanskar and hygiene classes are also conducted for students. In addition to the regular classes, children are also engaged in the various extra-curricular activities like storytelling, drawing, dance, singing, drama, etc. The Sampark event is organized every 4 months which involves visits to nearby villages to examine the status of education as well as economic status of the villages. The Sanskar Kendra organizes major festivals and occasions and also organized are Annual Sports Competition URJA, Annual Function PRATIVA and the Science Exhibition Programme named BUDDING SCIENTISTS. The Sanskar Kendra also occasionally organizes picnics and excursions for the children.

#### 5. The evidence of success:

- Appreciation from the state blood transfusion council, ODISHA (Received from the Head of the Department, Transfusion Medicine, VIMSAR, Govt. of Odisha in the year (2018 and 2019)
- 465, 563, 103 and 450+ units of blood were collected in the year 2018, 2019, 2020 and 2022 respectively .
- Complete University Campus ,E-learning Centre, Central Garden were cleaned in September 2022.
- AIDS awareness campaign was organised on 1st December 2022- WORLD AIDS DAY.
- Cancer Awareness Seminar was organised at Biju Pattnaik E-learning Centre by & SSG Society in collaboration with SUM ULTIMATE MEDICARE on 15th February 2023.
- Three of our students have pursued their B.Tech in Electrical Engg. , MME and Production Engg. in our own University VSSUT, Burla. Among them one has got placed in WIPRO & other is working as Jr. Instructor at VSSUT, Burla.
- **Kuni Haripal** -Rank 43 (General) and State Rank 1 (SC women) in Diploma Entrance Test-2013.
- **Sukanti Khamari** - 99 /100 in Mathematics (10th Board -2016).
- **Smrutismita Majhi** -100 /100 in Mathematics (10th Board -2019).
- Our class-5 students qualified for Odisha Adarsh Vidyalaya (OAV) – 2 (in 2020), 2 (in 2021), 4 (in 2022).
- One student is currently pursuing COSA (Ophthalmic Surgical Assistant) in **MKCG Medical College, Berhampur** (Admission year 2021).
- Two students are currently pursuing their Diploma in Medical Laboratory Technology (DMLT) in **VIMSAR, Burla** and **BBMCH College, Bolangir** respectively (Admission year 2021).
- **Biswajit Mahanand** and **Anisha Haripal** are pursuing their B.Tech in Metallurgical and Materials Engineering in **VSSUT** (Admission year 2021).

- B.Narashima and S.Balakrishna are pursuing their B.Tech in Civil Engineering & Metallurgical and Materials Engineering respectively in VSSUT (Admission year 2022).

## 6. Problems encountered and Resources Required:

The major problems are that the two villages Kirba and Panitanki were never graced with development. There is widespread poverty and low standards of life at a time lagging the scale of decades. The major problem is “whether our efforts will make their lives any better?” with the limited resources. Second major problem is “How would we convince parents or guardians of students to trust us with their ward’s career?” It was constant unabated support of student-teachers and the will power of our students who wanted to bring a change in lives of these kids.

## 7. Notes:

The work of SSG society and the Sanskar Kendra are unique in the region in the sense that the work is completely voluntary and still large number of students come forward to uplift the lives of those living around them and put smiles on their faces.

File Description	Document
Best practices as hosted on the Institutional website	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

### 7.3.1

**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

#### Response:

The primary focus of the institute is in the area of technical education and skill development. In the face of the crisis created by COVID pandemic, the institute has adopted to the changing circumstances and employed online mode of examination for completing examinations on time and following due procedure enabling students to pursue their volition in higher studies and placements without any delay. This is in line with the past performance of the institution to conduct examinations on time. The institute has been accorded the best performer in the area of utilizing TEQIP-III funds for enhancement of quality

education such as creation of learning resources, improvement of student learning, graduate employability, faculty and staff development and motivation, research and development, MOOCs and digital learning, reforms and governance. The hostel corpus fund has been utilized to improve the amenities of the hostel to enable unhindered learning of the students outside the classroom. Three number of international students with ICCR scholarship have been admitted to PG and PhD programs of the university. The students of the univeristy have created and tested the VSLVrocket using Alumni funding and through collaboration with ISRO.VSSUT has signed Memorandum of Understanding with several leading institutions and organization to take its technical education standard to next level.

File Description	Document
Appropriate webpage in the Institutional website	<a href="#">View Document</a>



## 5. CONCLUSION

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### **Additional Information :**

The University through its various clubs provides opportunities for students to create disruptive technologies such as drone to map the reservoir silting and participation in vehicle challenge. VSSUT has signed Memorandum of Understanding with several leading institutions and organization to take its technical education standard to next level. The achievement of the students in the above areas have been widely appreciated at different levels of government and media. Prime minister Shri Narendra Modi in Mann Ki Baat program has appreciated the VSLV project of the VSSUT students which was successfully used for reservoir mapping. The Chief of Odish, Shri Naveen Patnaik has praised and appreciated the fact that VSSUT is the first government institute to achieve the above feat.

Presently, the university has more than 300 acres of land, out of which, 143 acres of contain existing buildings (academic, residences, and hostels) are in 95 acres. The remaining land would be used for expansion as per IDP submitted. Quantity is a critical mass, but quantity alone does not make a good University; Research must strive on the campus and new products/solutions must be evolved to serve the society. In line with this goal, each school will have more than one center of excellence (COE). The CoEs will be based on society-relevant areas like IoT, Augmented Reality/Virtual Reality, Steel making etc. COEs will facilitate research in the frontier areas where faculty and students will work on real-life industry problems. Further, these COEs will work on developing cost-effective products for the benefit of the community. The incubation and innovation cell will be strengthened further to attract more innovative projects like one existing from ISRO.

VSSUT has a plan to establish a Skill Centre to train the unemployed Diploma/ITI/ Matriculates in Welding, Drone survey, Automobile, Transformer Repair and Design, Textile Fabric design, Medical Technology, and Apparel design to make them industry-ready and inculcate the spirit of entrepreneurship. Our own students and faculty will impart training to these employable youth of Odisha.

### **Concluding Remarks :**

The undiluted teaching ethics, great learning culture, alumni performance, and competitive attitude of the students have earned VSSUT (formerly UCE) its place among the club of IITs, NITs, IISc, or IEST Shibpur – despite the fact that it is a State-funded institution. In Odisha, it is the only Government Engineering Institute that has a NIRF rank of 111 (only Govt institute behind NIT Rourkela and IIT Bhubaneswar). The VSSUT aspires to play a key role in this growth story by becoming a multi-disciplinary University (MERU). Further, it wants to become a Diagnostic Centre for the Industries, a breeding ground for Low-Cost Revolutionary products, and a Nodal Centre for developing schemes for Rural and Urban Odisha. With its lofty Vision and strategic Mission, VSSUT is poised to forge ahead in higher education, equipping the youth with academic excellence, professional competence, leadership skills and commendable values to scale great heights in their career, while serving the nation with commitment and compassion. The vast campus with excellent academic infrastructure, modern and sophisticated laboratories in emerging areas of research, extraordinary sporting facilities, highly competent and dedicated faculty. With structured policies and procedures for diligent

governance, decentralized administration, a responsive leadership, VSSUT has embarked on a journey that has aligned itself with the National Education Policy in providing multidisciplinary education to its students for a lifelong learning experience and a successful career.