# Yearly Status Report - 2018-2019

| Part A | |
|---|---|
| **Data of the Institution** | |
| **1. Name of the Institution** | **VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY** |
| Name of the head of the Institution | **Prof.Atal Choudhuri** |
| Designation | **Vice Chancellor** |
| Does the Institution function from own campus | **Yes** |
| Phone no/Alternate Phone no. | **06632430211** |
| Mobile no. | **9437572477** |
| Registered Email | **vc@vssut.ac.in** |
| Alternate Email | **vcvssut@gmail.com** |
| Address | **Veer Surendra Sai University of Technology Siddhi Vihar, Burla P.O. Engineering College Burla, SAMBALPUR, ODISHA, INDIA-768018.** |
| City/Town | **Sambalpur** |
| State/UT | **Orissa** |

| | |
|---|---|
| Pincode | **768018** |

## 2. Institutional Status

| | |
|---|---|
| University | **State** |
| Type of Institution | **Co-education** |
| Location | **Urban** |
| Financial Status | **state** |
| Name of the IQAC co-ordinator/Director | **Prof. Bibhuti Bhusan Pati** |
| Phone no/Alternate Phone no. | **06632430211** |
| Mobile no. | **9437420409** |
| Registered Email | **iqac@vssut.ac.in** |
| Alternate Email | **deanfp@vssut.ac.in** |

## 3. Website Address

| | |
|---|---|
| Web-link of the AQAR: (Previous Academic Year) | [http://vssut.ac.in/IQAC/documentspdf/AQAR-VSSUT-2017-18.pdf](http://vssut.ac.in/IQAC/documentspdf/AQAR-VSSUT-2017-18.pdf) |

| | |
|---|---|
| **4. Whether Academic Calendar prepared during the year** | **Yes** |
| if yes,whether it is uploaded in the institutional website: Weblink : | [http://www.vssut.ac.in/doc/Academic-Activity-Calendar-2018-19.pdf](http://www.vssut.ac.in/doc/Academic-Activity-Calendar-2018-19.pdf) |

## 5. Accrediation Details

| Cycle | Grade | CGPA | Year of Accrediation | Validity | |
|---|---|---|---|---|---|
| | | | | Period From | Period To |
| **1** | **B+** | **2.76** | **2016** | **19-Feb-2016** | **19-Feb-2021** |

| | |
|---|---|
| **6. Date of Establishment of IQAC** | **06-Jan-2015** |

## 7. Internal Quality Assurance System

| Quality initiatives by IQAC during the year for promoting quality culture | | |
|---|---|---|
| Item /Title of the quality initiative by | Date & Duration | Number of participants/ beneficiaries |

| IQAC | | |
|------|------|------|
| Installing Pumps and Bore-well for campus beautification | 20-Mar-2019 12 | 5000 |
| Introduction of Specialised programmes at UG level | 18-Apr-2019 1 | 5000 |
| Video recording of Lectures/sophisticated Research equipment | 18-Dec-2018 9 | 8000 |
| Cleaning of Power channel | 29-Nov-2018 1 | 10000 |
| ARIIA Ranking | 10-Jul-2018 1 | 5000 |
| Curriculum and syllabus for all UG and PG Engineering programs as per AICTE model curriculum | 20-Apr-2019 2 | 6500 |
| NIRF Ranking | 15-Dec-2018 1 | 8000 |
| AISHE Survey data | 27-Feb-2019 1 | 103 |
| [View File](#) | | |

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|------|------|------|------|------|
| Veer Surendra Sai University of Technology, Burla | 12B Status | UGC | 2019 1825 | 70000000 |
| Veer Surendra Sai University of Technology, Odisha | TEQIP-III | NPIU | 2019 1825 | 36500000 |
| [View File](#) | | | | |

| **9. Whether composition of IQAC as per latest NAAC guidelines:** | Yes |
|------|------|
| Upload latest notification of formation of IQAC | [View File](#) |
| **10. Number of IQAC meetings held during the year :** | 5 |

| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website | **Yes** |
|---|---|
| Upload the minutes of meeting and action taken report | [View File](#) |
| **11. Whether IQAC received funding from any of the funding agency to support its activities during the year?** | **No** |

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

**● Curriculum Development, ● Academic audit. External Internal Academic audit inspection of 201819. ● Observed International Women's day on 8th March, 2019., ● Celebrated World Telecommunication Day 17th May 2019, Celebrated World Yoga Day 21st June 2019. Motivated Faculty members to write research paper and preparation of soft copy of course material**

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

| Plan of Action | Achivments/Outcomes |
|---|---|
| **Academic Council, Finance Commtte, Building Works Committee and Board of Management. meetings** | **Conducted as per provision embolished in VSSUT st Statute** |
| **Initiation of University innovation Cell** | **Building foundation stone given** |
| **Procurement of equipment preferably through Government e-Market Place (GeM) portal** | **Done** |
| **Organisation of Faculty Development Programme** | **Conducted** |
| **workshop on Robotics for school and college students** | **Conducted by Students Robotics club** |
| **Preparation for Innovision 2019, at NIT Rourkela** | **Participated by students** |
| **Functioning of CPPC in the University** | **Achieved** |
| **10th Convocation dtd.11.12.2018** | **Conducted** |
| [View File](#) ||

| **14. Whether AQAR was placed before statutory body ?** | **Yes** |
|---|---|

| Name of Statutory Body | Meeting Date |
|---|---|
| **IQAC, Academic Council, Board of** | **04-Jun-2019** |

| | |
|---|---|
| Management | |

| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | **Yes** |
| Date of Visit | **16-Dec-2018** |
| 16. Whether institutional data submitted to AISHE: | **Yes** |
| Year of Submission | **2019** |
| Date of Submission | **27-Feb-2019** |
| 17. Does the Institution have Management Information System ? | **No** |

## Part B

## CRITERION I – CURRICULAR ASPECTS

### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization | Date of Revision |
|---|---|---|---|
| **BTech** | **02** | **Chemical Engineering** | **20/04/2019** |
| **BTech** | **02** | **Civil Engineering** | **20/04/2019** |
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

| Programme with Code | Programme Specialization | Date of Introduction | Course with Code | Date of Introduction |
|---|---|---|---|---|
| **BTech** | **Engineering** | **20/04/2019** | **Civil, Mechanical, Electrical, Production, Metallurgy, Computer Sc., Information Technology, Electronics Tel ecommunication, EEE, Chemical** | **01/07/2019** |
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### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|---|---|---|

| MSc | Organic Chemistry | 02/07/2018 |
| --- | --- | --- |
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
| --- | --- | --- |
| BTech | All Engg. Courses | 20/04/2019 |
| Mtech | All Engg. Courses | 20/04/2019 |

## 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
| --- | --- | --- |
| Pre-placement training | 20/08/2018 | 900 |
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1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
| --- | --- | --- |
| BTech | Preparation for Innovision 2019, at NIT Rourkela | 54 |
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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| Students | Yes |
| --- | --- |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

| Feedback Obtained |
| --- |
| The purpose of this policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the University's curriculum for use in program evaluation, accreditation and other academic quality assurance processes and activities. This policy provides a framework for: 1. Monitoring and improving the quality of students' learning experiences through the timely collection, analysis and reporting of student feedback concerning teaching, learning and assessment. 2. Providing students and stakeholders with the opportunity to actively participate in the continual improvement of programs, 3. Recognizing, documenting, supporting and extending good practices for effective implementations of curriculum provided by affiliating University. 4. Ensuring the provision of information to students and stakeholders regarding the consideration of feedback collected over time, including actions taken to address concerns raised in any feedback received. The University collects feedback from students as well as from employers, parents and alumni. The feedback received from the students are analysed and necessary steps have been |

made for the implementations of various suggestions received from the students in reforming the examination, evaluation and ensuring transparency in the overall examination system of the University. The faculty members are regularly deputed for attending short term courses, refresher courses to update themselves in the new methodology of teaching, learning and evaluation process. Faculty members are trained to facilitate active and interactive learning to the students. Use of different teaching methodology helps the students to understand and retain the concept. 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. Curriculum and syllabus is made available in the University website for all the courses. The faculty member assigned to a particular subject prepares a lesson plan which is monitor by the Head of the Department. The individual teacher prepare the Lecture note and upload the same in the various department page in the University website for the benefit of the students. The academic audit of the various engineering and science departments have been conducted every year and reports of the same have been submitted to the BOM. The feedback received from the parents and alumni are placed before the University Committee for Perspective Planning. Their suggestions are taken care off. The Dean Academic affair and the Dean PGSR are jointly responsible for the collection, analysis and reporting of stakeholder feedback relating to academic programs. Coordination of responses to feedback will be the responsibility of the Heads of Departments. A core set of questions forms the basis of a survey deployed to systematically evaluate teaching and learning in all UG PG courses. A range of feedback mechanisms including surveys, focus groups, informal comments and other participatory activities are considered as appropriate. The main objective of the feedback policy is effective implementation of Curriculum for better learning and continuous improvement of the processes and practices.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|---|---|---|---|---|
| BTech | Civil Engineering | 120 | 19674 | 120 |
| BTech | Chemical Engineering | 60 | 19674 | 60 |
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### 2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|---|---|---|---|---|---|
| 2018 | 3560 | 445 | 241 | 51 | 123 |

### 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Numberof smart classrooms | E-resources and techniques used |
|---|---|---|---|---|---|
| 255 | 255 | 1124 | 25 | 13 | 6 |

View File of ICT Tools and resources

View File of E-resources and techniques used

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring students is a unique, interactive and target oriented system involving student to address common student concerns ranging from anxiety, stress, fear of change and failure to home sickness and a slew of other academic worries. It is a process of creating a supporting relationship with teachers, parents and students aiming at comprehensive development of students. In this activity, mentor helps a less experienced student to bring with them a higher level of experience for values of life. Mentoring helps to shape an individual's beliefs and values in a positive way. There are many benefits of mentorship in student development that includes communication, interpersonal relationship, technical, verbal, motor and leadership skills along with creative thinking and motivating students for extracurricular activity. Students Mentoring system is existing in this University. Faculty mentors play a crucial role in mentoring their students. Students and their mentors share responsibility for ensuring productive and rewarding mentoring relationships. Both of them have a role to play in the success of mentoring. For graduate students, a mentor is someone who serves as a guide throughout their institutional training. They provide both professional and personal advice in transitioning into, and out of, graduate school. They give constructive feedback on writing, teaching and other elements of career design. They can serve to help students balance professional goals with their personal lives or give emotional encouragement during challenging times. Mentoring enables constructive interaction, guidance and mentorship of junior students by senior students. It also provides a reliable and comprehensive support system to motivate students to excel in both academic and non-academic fields and to make the most of their life at the Institute. It helps undergraduate fresh students understand the challenges and opportunities present in the University and develop a smooth transition to campus life. Mentoring system also counsels academically weak undergraduate first year students and to play an important role in helping troubled students cope with academic, extra-academic and personal problems. Mentoring proactively tries to identify problems of the general student populace and to bring them to the notice of the concerned authorities. Mentoring also ensures regularity and punctuality of students through counseling sessions. This University Student mentoring programme primarily deals with first year undergraduate students. The PG incharges will be allocated as mentors of first year PG students. The senior students, called Student Mentors (SMs) are responsible for helping a set of fresh first year students adjust to the new environment and subsequently monitor their progress throughout the year. Every undergraduate fresh first year students is covered by this programme. The timely and extensive implementation of mentoring generates healthy interaction between students, parents and teachers and results in less student grievances. The Mentoring activity at VSSUT is helping the students for overall comprehensive development. The Dean, Student welfare of the University supervises and effectively implements mentoring activity at University level.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|---|---|---|
| 4569 | 235 | 1:19 |

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|---|---|---|---|---|
| 326 | 235 | 91 | 0 | 130 |

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---|---|---|---|

| 2018 | NUTAN SAHA | Assistant Professor | MATLAB, U.K. RECOGNISES HER SWITCHED RELUCTANCE MOTOR MODEL |
| 2018 | SIDDARTH PANDA | Professor | MATLAB U.K. Recognises their SWITCHED RELUCTANCE MOTOR MODEL |

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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
| --- | --- | --- | --- | --- |
| BTech | 02 | 3rd | 13/12/2018 | 31/01/2019 |
| BTech | 02 | 1st | 17/12/2018 | 31/01/2019 |

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage |
| --- | --- | --- |
| 0 | 5200 | 0 |

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://vssut.ac.in/department.php?url=electrical-engineering

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
| --- | --- | --- | --- | --- | --- |
| 02 | BTech | Civil Engineering | 132 | 118 | 89 |
| 02 | BTech | Chemical Engineering | 64 | 63 | 98 |

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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://www.vssut.ac.in/doc/SSS-18-19-VSSUT.pdf

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

## 3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type | Name of the teacher awarded the fellowship | Name of the award | Date of award | Awarding agency |
|---|---|---|---|---|
| National | Dr. Gyana Ranjan Biswal | Fellow IE India | 06/07/2018 | IE India |
| International | Dr. Papia Ray | Sr. Member IEEE | 21/06/2019 | IEEE |
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## 3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

| Name of Research fellowship | Duration of the fellowship | Funding Agency |
|---|---|---|
| JRF (Soumya Debasish Das) | 730 | CPRI |
| JRF ( Subhadeep Pradhan) | 1095 | AICTE |
| JRF (Rajesh Lenka) | 1095 | DST |
| JRF (MINAKETAN BEHERA) | 1095 | AICTE |
| JRF (JAWAZ ALAM) | 1095 | AICTE |
| JRF (LUSI SUBHADARSINI) | 1095 | AICTE |
| JRF (SURAJ DASH) | 1095 | AICTE |
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## 3.2 – Resource Mobilization for Research

### 3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|---|---|---|---|---|
| Major Projects | 730 | AICTE | 24.8 | 24.8 |
| Major Projects | 730 | AICTE | 10 | 10 |
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## 3.3 – Innovation Ecosystem

### 3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar | Name of the Dept. | Date |
|---|---|---|
| TEDEX | IQAC, VSSUT | 30/09/2018 |
| India Innovation Growth Programme 2.0 | IDEA CLUB, VSSUT | 02/08/2018 |
| Anveshan 2018 Make for India Innovation | IQAC, VSSUT | 06/08/2018 |
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### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|---|---|---|---|---|
| SWITCHED RELUCTANCE MOTOR Model | Nutan Saha and Prof. Siddharth Panda | Math Works, U.K. | 30/10/2018 | Research |
| India Innovation | Jaswasi Sahoo, Sovan Panda, | DST, Govt. of India | 02/08/2018 | Innovation |

| Growth programme 2.0 | Sudarshan Samal | | | |
|---|---|---|---|---|
| Anveshan 2018 Make for India Innovation | A team of 8 students | Analog Device Inc. | 06/08/2018 | Innovation |
| BIRAC National Innovation Challenge | A team of 6 students | BIRAC | 20/03/2019 | Innovation Senio Care |

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|---|---|---|---|---|---|
| o1 | VSSUT-ASSIST | University | Inventgrid | Technological Consultancy | 12/09/2018 |
| 01 | VSSUT-ASSIST | University | Navyax | Agritech | 12/03/2019 |

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## 3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---|---|
| Computer Science Engineering | 6 |
| Electrical Engineering | 5 |
| Electronics Telecomm. Engineering | 5 |
| Mechanical Engineering | 2 |
| Production Engineering | 1 |
| Chemistry | 3 |
| Mathematics | 3 |
| Physics | 1 |

3.4.2 – Research Publications in the Journals notified on UGC website during the year

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---|---|---|---|
| International | Civil Engg. | 40 | 0.8 |
| International | Chemical Engg. | 17 | 0.6 |

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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department | Number of Publication |
|---|---|
| Chemical Engineering | 7 |
| Civil Engineering | 18 |

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3.4.4 – Patents published/awarded/applied during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---|---|---|
| A composition for partial replacement of ordinary portland cement | Published | 303344 | 22/11/2018 |

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|---|---|---|---|---|---|---|
| 7-Hexyloxy-3-[4'-(3-methylbutyloxy) phenyl]-4H-1-benzopyran-4-one: Study of Smectic behaviour and UV absorption profile | P. Lakshmi Praveen | Molecular Crystals Liquid Crystals | 2018 | 0.512 | Veer Surendra Sai University of Technology, Burla | 1 |
| A Certain Class of Deferred Weighted Statistical B-Summability Involving (p q)-Integers and Analogous Approximation | Amjed Zraiqat, S. K. Paikray and H. K. Dutta | Filomat | 2019 | 0.848 | Veer Surendra Sai University of Technology, Burla | 0 |

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|---|

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---|---|---|---|---|---|---|
| 7-Hexyloxy-3-[4'-(3-methylbutyloxy) phenyl]-4H-1-benzopyran-4-one: Study of Smectic | P. Lakshmi Praveen | Molecular Crystals Liquid Crystals | 2018 | 10 | 1 | Veer Surendra Sai University of Technology, Burla |

| behaviour and UV absorption profile | | | | | | | |
|---|---|---|---|---|---|---|---|
| A Certain Class of Deferred Weighted S tatistical B-Summabil ity Involving (p q)-Inte gers and Analogous Approximat ion | Amjed Zraiqat, S. K. Paikray and H. K. Dutta | Filomat | 2019 | 9 | 0 | | Veer Surendra Sai University of Technol ogy, Burla |

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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty | International | National | State | Local |
|---|---|---|---|---|
| Attended/Semina rs/Workshops | 22 | 120 | 17 | 0 |
| Presented papers | 366 | 12 | 0 | 0 |
| Resource persons | 5 | 6 | 1 | 0 |

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## 3.5 – Consultancy

### 3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|---|---|---|---|
| Civil Engineering | PM Gramya Sadak Yojana | Govt. of India | 2230000 |
| Civil Engineering | Material Testing | Various Agency | 4447000 |
| Civil Engineering | Consulting services through different nature of work (i.e. Structure/Geo -tech?Environment/T ransport and Miscellaneous) | Various Agency | 4330000 |

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### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|---|---|---|---|---|
| Electrical Engg. | Executive B.Tech. | HINDALCO | 1500000 | 15 |

| Production Engg | Executive B.Tech. | HINDALCO | 1500000 | 15 |
| --- | --- | --- | --- | --- |
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## 3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
| --- | --- | --- | --- |
| Sapling Plants and Zero Plastic Awareness Programme | NSS | 54 | 341 |
| Collection of Relief Materials for Odisha Flood | NSS | 12 | 234 |
| Yoga Demonstration | Yoga Club | 2 | 23 |
| Blood Donation Camp | SSG | 5 | 200 |
| Swachha Bharat Aviyan | NSS | 10 | 400 |
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
| --- | --- | --- | --- |
| Nil | Nil | Nil | 0 |
| No file uploaded. | | | |

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activites | Number of students participated in such activites |
| --- | --- | --- | --- | --- |
| Disaster Management | NSS | Collection of Releif Materials | 12 | 234 |
| Swachh Bharat summer Internship | Sanskar Kendra | Internship in villages | 8 | 42 |
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## 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity | Participant | Source of financial support | Duration |
| --- | --- | --- | --- |
| Nil | 0 | Nil | 0 |
| No file uploaded. | | | |

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|---|---|---|---|---|---|
| Academic TWIN Activity | Twinning Activity | OSMANIA UNIVERSITY, Hyderabad | 01/01/2018 | 31/12/2019 | 50 |
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|---|---|---|
| Nil | 01/07/2018 | Nil | 0 |
| No file uploaded. | | | |

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|---|---|
| 1401 | 1235 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---|---|
| Value of the equipment purchased during the year (rs. in lakhs) | Existing |
| Classrooms with Wi-Fi OR LAN | Existing |
| Seminar halls with ICT facilities | Newly Added |
| Campus Area | Existing |
| Class rooms | Existing |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Laboratories | Existing |
| Seminar Halls | Existing |
| Classrooms with LCD facilities | Newly Added |
| No file uploaded. | |

### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

| Name of the ILMS software | Nature of automation (fully or patially) | Version | Year of automation |
|---|---|---|---|
| KOHA | Partially | 17.11 | 2018 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|---|---|---|---|---|---|---|
| Text Books | 57800 | 22315000 | 200 | 185000 | 58000 | 22500000 |
| Journals | 9024 | 10200000 | 0 | 0 | 9024 | 10200000 |
| e-Journals | 3351 | 4300000 | 231 | 1800000 | 3582 | 6100000 |
| Digital Database | 2 | 2460000 | 0 | 0 | 2 | 2460000 |
| CD & Video | 25 | 0 | 0 | 0 | 25 | 0 |
| Library Automation | 1 | 200000 | 0 | 0 | 1 | 200000 |
| [View File](#) | | | | | | |

 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---|---|---|---|
| Nil | Nil | Nil | 01/07/2018 |
| **No file uploaded.** | | | |

## 4.3 – IT Infrastructure

 4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/ GBPS) | Others |
|---|---|---|---|---|---|---|---|---|---|
| Existing | 950 | 16 | 2 | 2 | 1 | 10 | 16 | 1024 | 0 |
| Added | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 970 | 18 | 2 | 2 | 1 | 10 | 16 | 1024 | 0 |

 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

| 1024 MBPS/ GBPS |
|---|

 4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|---|---|
| Nil | [Nil](#) |

## 4.4 – Maintenance of Campus Infrastructure

 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurredon maintenance of physical facilites |
|---|---|---|---|
| 2500 | 1501 | 2000 | 1235 |

 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The University has full fledged Civil and Electrical Maintenanace section under the guidance of two Professors. The University has AC Maintenance, Computer Maintenance, Fitter section, Carpentry, Mason works section etc. for looking after University maintenance. The University has signed annual Maintenance Contract (AMC) with various companies. More than six Diesel Generator set have been installed for back up power supply. One wind mill and many roof top solar plants installed in halls of residences and E-learning centre. CFL Bulbs are used. Documentation equipments, Photocopy machines are available in more than 50 places inside University. Help of experts are taken in case of major repair and maintenance of any essential and costly equipments of various departments. The issues related to class rooms are managed by a committee comprising of a Dean and faculty members. The university has also procured equipments and software amounting Rs.100.00 lakhs through TEQIP and Rs.378.80 lakhs through RUSA for the modernisation and strengthening of various laboratories of departments. The university has modernised Class rooms, seminar rooms and has procured additional Furniture for class room and staff rooms. The university has highly qualified faculty members dedicated to teaching and research. They have been invited to deliver Key note lectures, chair national and International conferences. A large number of faculty members are functioning as reviewers for a number of reputed national and international Journals. They have been invited to be expert member of AICTE, NAAC, NBA, Odisha Public Service commission and other universities. The faculty members also contribute to development of curriculum of other universities. . The faculty members have published a number of research papers in peer reviewed research journals. They have also published Books and Chapters for Books. Further, the departments have organized number of conferences and Seminars. 307 Nos. Ph.D. Scholar are currently pursuing their research work in the University. The University has taken up the construction/Renovation work of several buildings to meet the increasing demand for Classrooms, Departments and residential purposes. The University has taken up a number of consultancy projects of state and central government organisations and industries worth of about Rs.1.1 Crores. The students of VSSUT excel in all fronts including academic, cultural, extracurricular activities. The students of the university have taken up social activities towards the development of surrounding community. The university has three societies namely Technical Society, Cultural Society Athletic Society under which a number of clubs function for all round development of the students and to give scope to exhibit their talents.Each department has professional societies in their respective fields which provide platform for the students to exhibit their academic and research talents. Our students have taken up challenges in innovations for betterment of the society. Intra College and Intramural tournaments are regularly organized to provide an opportunity for the students/staff/faculty members to exhibit their talents. A sports calendar is released every year for effective conduct of sports events in the campus. A committee headed by the Professor in- charge, Professors and librarian ensure efficient functioning of the Library.

http://vssut.ac.in/doc/VSSUT-Statute.pdf

# CRITERION V – STUDENT SUPPORT AND PROGRESSION

## 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

|  | Name/Title of the scheme | Number of students | Amount in Rupees |
| --- | --- | --- | --- |
| Financial Support from institution | TEQIP Scholarship, Silver Jubilee Scholarship, | 29 | 640000 |
| Financial Support |  |  |  |

| from Other Sources | | | |
|---|---|---|---|
| a) National | Medhabruti, NDF, AICTEState loan Stipend, Post Matric scholarship | 182 | 1860000 |
| b)International | Recognition | 22 | 150000 |
| View File | | | |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved |
|---|---|---|---|
| Employability Assessment Test | 13/11/2018 | 3256 | Aspiring Minds |
| Employability Skill Training | 02/03/2019 | 936 | Career Launcher |
| Preplacement training (Logical reasoning) | 08/09/2018 | 908 | Resource Person |
| Preplacement training (Quntitative Ability) | 25/08/2018 | 908 | Resource Person |
| Preplacement training (Soft Skill) | 18/08/2018 | 908 | Resource Person |
| Personal Counselling on Career guidance Discipline aspects | 04/09/2018 | 908 | Mentor Departments |
| Remedial Coaching | 29/11/2018 | 54 | Mentor departments |
| Preparing the Students for Competitive Exams | 23/10/2018 | 457 | Dr.P.K.Pradhan, Autorised Officer, WESCO, Burla |
| View File | | | |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passedin the comp. exam | Number of studentsp placed |
|---|---|---|---|---|---|
| 2018 | Orientation programme for competitive Exam | 150 | 120 | 55 | 60 |
| 2019 | GATE Coaching | 200 | 178 | 63 | 56 |

| 2018 | Orientation programme for competitive Exam | 123 | 231 | 67 | 39 |

[View File](#)

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
| --- | --- | --- |
| 1 | 1 | 15 |

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
| --- | --- | --- | --- | --- | --- |
| Nameof organizations visited | Number of students participated | Number of stduents placed | Nameof organizations visited | Number of students participated | Number of stduents placed |
| 25 | 870 | 645 | 31 | 540 | 431 |

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Depratment graduated from | Name of institution joined | Name of programme admitted to |
| --- | --- | --- | --- | --- | --- |
| 2019 | 139 | B.Tech. | All Depts | IITs, NITs | M.Tech. |
| 2018 | 26 | B.Tech. | All Depts | IITs, NITs | M.Tech.Res |
| 2019 | 38 | M.Tech | All Deptts | IIT, NIT, Abroad | Ph.D. |
| 2019 | 12 | M.Sc | Phy, Chem, Math | IIt, central University | Ph.D. |

[View File](#)

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items | Number of students selected/ qualifying |
| --- | --- |
| NET | 5 |
| Civil Services | 4 |
| TOFEL | 21 |
| Any Other | 53 |
| GATE | 132 |
| CAT | 32 |
| GRE | 22 |

[View File](#)

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
|---|---|---|
| Cultural event | International | 2 |
| Cultural event | National | 80 |
| Cultural event | University | 10 |
| Sports Games | International | 12 |
| Sports Games | National | 67 |
| Sports Games | University | 78 |
| View File | | |

## 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|---|---|---|---|---|---|---|
| 2018 | 2nd Prize, Infosys Robotics Camp | National | 0 | 0 | 1602060020 | Rohan Sharma |
| 2018 | 2nd Prize, Infosys Robotics Camp | National | 0 | 0 | 1602050110 | Suman Sekhar Das |
| View File | | | | | | |

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The University has different clubs, societies and association in which the Vice-Chancellor is the President and faculty members are nominated as Vice-Presidents. The Secretaries and Assistant Secretaries were selected by personal interview based on the CGPA they had secured in their last qualifying examination. The Secretaries are responsible for the functioning of their respective clubs, societies and association for which they are selected. Every year the subscription 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 following are the important Clubs, Associations and Societies of the students of the University. FUNCTIONS CULTURAL ASSOCIATION (a) To organize competitions on cultural events. (b) To organise discussion on general, technical, cultural, academic, national and international issues. (c) To invite eminent persons for guest lectures. (d) To take up such other activities as are approved by the Vice-Chancellor. (e) To promote cooperation amongst present and former students. (f) To organize Annual Cultural Festival of 'VSSUT' (g) To organise Sarawati Puja, Ganesh Puja and other observations. DRAMATIC ASSOCIATION FUNCTIONS: The function of dramatic association is to present theatrical performances and variety shows etc.which exploit and develop musical and historic talents of the students. MUSIC CLUB FUNCTIONS: The function of this club is provide an opportunity to the students of the University to develop their musical talents and other cultural activities. ATHLETIC CLUB FUNCTIONS: (a) To promote athletic activity among the students. (b) To conduct the sports and athletic tournaments of the University. (c) To arrange and supervise participation of the University teams in the various student-teacher friendly matches, inter Hall /inter class competitions,

inter University, inter state sports and athletic meets. The athletic club is well equipped with a Gymnasium and athletic video library with all modern facilities and infrastructures. ART AND PHOTOGRAPHY FUNCTIONS: (a) To organize competitions on different categories of art and photography like pencial sketches, colour painting etc. (b) To organize art and photography competitions. LITERACY SOCIETY FUNCTIONS: (a) To promote literary activity amongst the students (b) To prepare and arrange for publication of the University magazine. AUDIO VISUAL CLUB FUNCTIONS: The Audio Visual Club provides entertainment to students and staff members, by way of screening Hindi/English/Oriya films once or twice a week. The club is equipped with one 35mm projector along with its accessories to screen films. A standby generator is also connected to meet the requirements during power failure. Members are provided with entry passes for easy identification and to prevent unauthorized entry of outsiders. The club organizes Annual Film Festival once a year. FUNCTIONS: (a) Publication of Souvenir "Galaxy" for outgoing B.Tech/M.Tech/M.Sc./MCA students The students represented as member in the following 1) Academic Council 2) Placement Committee 3) Anti-ragging Committee 4) Anti-ragging Squad 5) Hall Anti ragging Committee 6) Council of Hall of Residence 7) Mess management Committee 8) Hall Development Committee

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

All the passout UG/PG/Ph.D. students are members of this association which is registered as a society as per Society Registration Act.1860 (SBP-5909-23/2005-06 dated 31.08.2005) VSSUT alumni are global leaders holding prestigious positions in reputed organization world wide. Many of them have excelled as professionals in various fields. The aim of the Alumni Association of VSSUT are : a) To foster and keep up a sense of fraternity and goodwill among the Ex-students of the University. b) To refresh their pleasant memories of the student career and to inculcate a sense of pride for their alma-mater. c) To maintain a record of their contributions to the field of engineering profession. d) To serve as a link of introduction of the present students of the institution to its old boys / girls. e) To hold annual general body meeting and executive body meeting in order to discuss: i) Development of the activities of the Association and ii) Interesting topics relating to the Engineering profession. Vice-Chancellor, VSSUT is the Ex-officio President of the association. f) An official website namely "vssutalumni.org" is opened for getting and maintaining the database. g) Many alumni sub-centres are operational around the country and abroad such as USA, Delhi, Hyderabad, Bangalore,Mumbai, Bhubaneswar, Rourkela, Angul. h) The University has instituted "Distinguished Alumni Award" to give due recognition alumni. The Alumni Association motivates all the alumni to share their feedback for the benefit of the students and all around development of the University. It is our tradition to invite our alumni for important programs of the college viz. Foundation day and convocation. Among 246 teaching faculty 183 are our alumni and among 182 non teaching staff 5 are our alumni. Our alumni represent various committees/cells/forums of the college like IQAC composition of the VSSUT, Board of studies of the departments, Academic council, Board of of Management(As per Act.9 of 2009) which reveal the active participation of our alumni in holistic development of the legendary University. Separate alumni website has been actively maintained to update their profile and offer their feed backs. As per the bylaws of the trust its' EC meetings, GB meetings are periodically conducted. It has taken measures to connect all the alumni of the UCE/VSSUT as life members of the association. It arranges placements, internships, financial help for needy students. Alumni constantly persue at state and Central Government levels for more and more financial aid as well as

face lift of the University. It acts as a bridge between all the stakeholders of the college 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 students and faculty. The members at various occassions mentor the students of the Institute for higher education, development of character and to become GOOD citizens of our Country.

5.4.2 – No. of registered Alumni:

39984

5.4.3 – Alumni contribution during the year (in Rupees) :

1800000

5.4.4 – Meetings/activities organized by Alumni Association :

Freshers Welcome Executive Committee meeting Annual general body meeting Felicitation of 2019 batch Alumni Election of new office bearers

## CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The University continued with decentralization practices and participative management a various level described as follows. The University has vision and mission which are futuristic in nature. They satisfy the needs of society through involvement of each one in the process. The governance comprising of Board of Management(BOM), Academic Council (AC), Finance Committee, Building and Works Committee, Department Academic Committee (DAC) and Internal Quality Assurance Cell (IQAC), Examination Committee, Board of Studies, Conducting Board of Examiners, Central Purchase Processing Committee(CPPC) play significant role in the evolutionary reforms towards positioning the University in the preferred list of all stake holders. The University authority believes in promoting a culture of delegation of powers through strategic policies. The Vice Chancellor is assisted by HODs, Administrative Head, Section in-charges and coordinators of various cells/committees in decision making process of the University. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities. The University maintained the culture of retention of Faculty and hence has an edge of senior and dedicated Faculty for realizing its Vision. University follows recruitment policies and service conditions as per the rules and regulations of VSSUT 1st Statutes and AICTE/UGC. Fair representation of women faculty is also ensured at all levels of organization and congenial environment is fostered. Based on the Vision and Mission of the University, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. The University has a perspective plan developed by Vice-Chancellor and HOD's with suggestions of IQAC, DAC under the guidance of AC and BOM. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture. Student's surveys and feedback from all the stakeholders plays vital role in framing and revising policies. Internal Quality Assurance cell (IQAC) formulates perspective plan taking into consideration inputs from all stake holders. This plan is presented and deliberated in Finance Committee, Building and Works Committee under the chairmanship of Vice-Chancellor to get consensus. This plan is forwarded to the BOM for approval. The University policy believes

involvement of all staff in decision making and implementing the decentralized decision policy. To streamline the same, various committees at University level are formed which look after academic and administrative activities which lead to the realisation of vision and mission of the University.

6.1.2 – Does the institution have a Management Information System (MIS)?

**Partial**

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

| Strategy Type | Details |
| --- | --- |
| Industry Interaction / Collaboration | Interaction with industry for providing industrial exposure to students and faculty is of prime importance at VSSUT. For strengthening the teaching learning process, the University has initiated deputing Faculty to Industry practice. This has helped to improve interaction with industry with the involvement of every faculty. The University has tried to standardize the difference processes in order to strengthen interaction with industry. At the start of semester, every subject teacher has to plan industrial visit and expert talk by industry expert by providing all the details to the department such as industry details, planned date of conduction, budget required for the same, etc. All these activities should be for assigned subject for the faculty. Apart from, industry visit and expert talk, every department has to plan one / two day training programs in association with industry for the students. Plan sheets are kept in the department and Head of Department take review and monitor the conduction of all the planned activities as per the planning. Value added courses for the student in association with industry is another major aspect where institute is focusing. At the end of semester, standard formats are made available to the department to compile all the activities conducted in association with industry and summary sheet of the same is also prepared and communicated to all the departments for analysis and future plans. |
| Human Resource Management | Key points of human resource management of the University are as follows. Recruitment is through Statutory Guidelines. Staff requirements are obtained from all Heads of Department |

| | |
|---|---|
| | and reviewed by the Authority. Approval is taken from the Board of management. Advertisement in leading newspapers and University websiteConducting interviews by Chancellor approved Section Committee Annual appraisal of all faculties done by Authority and reviewed by the Board if necessary. Promotions of the faculty decided through the Selection Committee Annual increment decide by Authority based on annual performance appraisals. |
| Research and Development | The University is having Research and Development Cell named SRIC with the following objectives • To create awareness for Research and Development among faculty and students. • To create interest and motivate faculty to take up research projects in cutting edge technology. •To inculcate research attitude in students. • Motivate and facilitate students and faculty to solve social challenges through technological innovations. The University conducts Lectures, workshops to create awareness and protects Intellectual property rights of Faculty and students. During academic year 2018-19 the University faculty filed 4 patents. The University promotes and supports faculty and students for publishing their research work. In A.Y.2018-19 more than 400 papers published in Indexed journals, and in conferences by faculty and students. Faculty published 2 Books and six Book chapters |
| Curriculum Development | The University follows the curriculum approved by its own Academic Council and Board of Management. Our faculty members participate at various bodies of the university such as Academic Council, Board of Studies (BOS), and Subject Chairmen who contribute in framing of syllabus regularly. The University has its own stakeholder's feedback policy in place. The purpose of this Policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the VSSUT's curriculum. All the feedbacks received from various stakeholders are summarized and analysed. The recommendations are communicated to the BOS for curriculum revision |

| | |
|---|---|
| Teaching and Learning | Dean Academic Affairs monitors the teaching learning process, and prepares a report which is periodically shared with the University Academic Council. Dean monitors the following teaching learning activities: 1.Conduct of lectures and practicals as per the time table 2. Preparation of the list of defaulters whose attendance is less than 75 3. Conduct of makeup classes for the defaulters 4. Coverage of the curriculum as per the syllabus 5. Continuous assessment (CAS) of the practicals 6. Conduct of project and seminar presentations 7. Conduct of the unit tests as per the plan 8. Analysis of test results 9. Assignments as per the plan Activities of the Academic monitoring are periodically reviewed by the Vice-Chancellor and corrective actions taken. |
| Examination and Evaluation | The University itself prescribes the overall Evaluation Examinations process. For theory courses, the assessment is carried out by offline Examination as an internal examination of 30 marks. The End Semester Examination of 70 marks carries out the final assessment of each course.The assessment of End Semester Examination is carried out by off line method. The Lab Practicals, Project, tutorials, Seminar is continuous assessment based on work done, attendance, understanding and submission of work in the form of report/journal. It is monitored and assessed by the subject teacher. At the end of the semester, Practical/Oral/Presentation is to be conducted and assessed by internal and external examiner in some subjects appointed by the university. Whenever any new system of evaluation is introduced at university, the same is first discussed at faculty meeting for effective implementation. The schedule and the structure of the internal as well as for end semester examination is prepared by the Examination Section of the university and displayed on the University notice board. Provision of Internal Squad for End Semester examination to restrict malpractices, if any has been placed. It ensures fair practices and transparency are maintained in the conduction of examination. |

| Library, ICT and Physical Infrastructure / Instrumentation | Library is using KOHA software for Library Automation, Open Source softwares are used for E Books Management and Institutional Repositories. Information Kiosk is kept at library entrance for search facility. Library website is created with open source software. Digital library and wifi system is available in library for utilization of E resources. Remote access made available. NPTEL Material is coordinated by Library. Library is using social platform like blog and face book for information dissemination. Sodha Ganga and Sodha Gangotri work are also coordinated in University Library. |
| --- | --- |
| Admission of Students | The University admits B.Tech and B.Arch Students from JEE-Main rank. Counselling is done by Odisha JEE every year . Admission to B.Tech Lateral Entry and MCA is done by Odisha JEE. Top rankers prefer VSSUT always. For all PG courses and Ph.D. programme University conduct admissions. University conducts the admission for PG students through career marks and online interviews. GATE qualified candidates are preferred. The admission to Ph.D. students are made through written test and interview. |

6.2.2 – Implementation of e-governance in areas of operations:

| E-governace area | Details |
| --- | --- |
| Planning and Development | MIS has been adopted partially. Academic planning involving various activities has been digitised as outlined in section 6.2.1. Feedback of students is used to improve the teaching learning process and develop new methodologies. Library uses Koha for organizing its books' inventory,purchase of new books, etc. Use of Google sheets/excel sheetsis done for data transaction of academic and administrative nature. Few of them are mentioned below: a. Maintaining CAS for Term Work/practicals/project/seminars. b. Maintaining marks obtained in assignments, midsem and endsem examinations. c. Record of makeup classes and extra classes. d. Shared data for University events e. Department information and UGC/AICTE. f. Requisition of library books (Academic Plan, Feedbacks for |

| | |
|---|---|
| | developments, Google sheets Library requirements) |
| Administration | ERP based activities are initiated for administrative purpose too. Some of the administrative tasks carried out by ERP software include assigning roles to access ERP reports as per hierarchy, Icard generation for students,(Academics Employees Leave, ICard, Library, Biometric attendance monitoring for Employees and Students, ET management) Recruitment process is made through online partially. |
| Finance and Accounts | Finance and accounts section uses Tally and excel for carrying out various accounting activities.Accounting activities carried out using Tally software are: a. Cheque printing b.Cash Book/Bank Book maintenance c. Maintenance of ledger d. Fees register e. Bank reconciliation statements (BRS) Following tasks are achieved using microsoftexcel: a.Preparation of salary bills b.Preparation and maintenance of student's fees. Salary and pension have been disbursed by adopting accounting packages |
| Student Admission and Support | Student admission and maintenance of data is done through software. The details of which are outlined in section 6.2.1. a. Library automation b. Management of books c. Issue /return work d. Library books acquisition e. Serial control . Online admission has been implemented in the UG, PG and Ph.D. stream. |
| Examination | Various activities pertaining to examination are carried out using software. Following tasks are executed a. Exam schedules of University examinations b. List of seat numbers c. Examination Summary of students d. Block No and seating arrangements. e. Examination results Following activities are carried out online using university portal: a.Online examination (First year and Second Year UG students) b. Question papers of University Examinations (received electronically) c. Online submission of marks for class tests d. Marks submission for oral/practical and project examinations (UG as well as PG programs) e. Receipt of remuneration for paper setting and assessment of papers Our Institute has evidenced |

| | several benefits after adopting egovernance in its various activities such as increased efficiency, transparency in academic and administrative work, reduction in costs, encouragement and participation in governance by all stake holders and empowerment of faculty and staff. Result publications have been taken up through online. |
| --- | --- |

## 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
| --- | --- | --- | --- | --- |
| 2018 | P.C. Swain | Hydro- 2018 | Nil | 8900 |
| 2018 | Manila malik | GIAN Course | Nil | 4600 |
| | | | | [View File](#) |

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
| --- | --- | --- | --- | --- | --- | --- |
| 2018 | Nil | Nil | 01/07/2018 | 30/06/2019 | 0 | 0 |
| **No file uploaded.** | | | | | | |

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
| --- | --- | --- | --- | --- |
| STC (Modelling Analysis and Control of Micro-Grid | 70 | 25/06/2018 | 07/07/2018 | 14 |
| STC (Materials, Manufacturing Management | 60 | 14/05/2018 | 26/05/2018 | 14 |
| STC (Recent advances in Hydrologic Application) | 60 | 28/05/2018 | 09/06/2018 | 14 |
| Refresher Course | 130 | 22/10/2018 | 27/10/2018 | 5 |

| Orientation Programme | 145 | 19/09/2018 | 22/09/2018 | 4 |
|---|---|---|---|---|
| View File | | | | |

## 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

| Teaching | | Non-teaching | |
|---|---|---|---|
| Permanent | Full Time | Permanent | Full Time |
| 309 | 309 | 215 | 215 |

## 6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|---|
| Pension, Leave Salary for 300days, Gratuity, Maternity leave, Group Insurance, Uniforms,Credit Society, NPS, Study leave, CL, EL, Medical Leave, Medical reimbursement, RO Drinking Water • Canteen facilities | Pension, Leave Salary for 300days, Gratuity, Maternity leave, Group Insurance, Uniforms,Credit Society, NPS, Study leave, CL, EL, Medical Leave, Medical reimbursement, RO Drinking Water • Canteen facilities, Festival advance with non interest • Uniform and Shoes for mess staff, security guards • Regular increments | Group Insurance, Scholarship, Tuition Fee Waiver , SC/ST Welfare, Monitoring assistance for accident victims |

## 6.4 – Financial Management and Resource Mobilization

### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The institute has established mechanisms for conducting internal and external audits for every financial year to ensure financial compliance. The internal audits are carried out whenever required. An external auditor appointed by the Government of Odisha(A.G./Local Fund) executes the statutory audit. Statutory financial audit is conducted in two sessions, one in the month of October/November for the period of April to September and second in the month of April /May for the period of October to March. 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.

### 6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose |
|---|---|---|
| HINDALCO | 500000 | For introduction of B.Tech. Executive Programme |
| View File | | |

### 6.4.3 – Total corpus fund generated

| 40000000 |
|---|

## 6.5 – Internal Quality Assurance System

**6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?**

| Audit Type | External | | Internal | |
|---|---|---|---|---|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Council of Architecture and UGC-12B extension review Committee | Yes | IQAC |
| Administrative | Yes | CAG, UGC-12B extension review Committee, NPIU Performance auditor (Prof.H.V. Ravindra, PESCE Mandya) on 27-29 Aug. 2018, Mentor Expert TEQIP-III Dr.Sanjay Dambhare COEP on 12-14 Oct. 2018 | Yes | IQAC |

**6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)**

The University is a non-affiliating unitary University established under Act 9 of 2009 in the Odisha Legislative Assembly.

**6.5.3 – Activities and support from the Parent – Teacher Association (at least three)**

Involvement of parents in different initiatives is always appreciated. Parents contribute and give their valuable suggestions through their representation on following activities. 1. Representation on Department level 2.Visit to student project exhibitions 3. Parent teacher meet 4. Parents from industrial sector supports for enhancing industry institute interaction 5.Feedback on Curriculum

**6.5.4 – Development programmes for support staff (at least three)**

1.Soft Skill, Time management, Behavioural Management. 2.Provision for higher study, lion 3.Insurance facility, Medical Reimbursement

**6.5.5 – Post Accreditation initiative(s) (mention at least three)**

Successfully increased no. of Ph.D. holders as faculty, For Plagiarism checking URKUND/Ithenticate software has been used. Coordinated visit of UGC 12-B extension Committee, NBA Team Visit is coordinated. NIRF 2019 data has been submitted. Annual Quality Assurance Report (AQAR) was submitted Annual Mandatory International/National Conference Establishment of Research Centre and New Research Projects Collaboration with Foreign Universities and Industry-Institution tie ups Excellence Awards for Teaching staff. Startup and Innovation Cell Felicitation of University student Toppers

**6.5.6 – Internal Quality Assurance System Details**

| | |
|---|---|
| a) Submission of Data for AISHE portal | Yes |

| | |
|---|---|
| b)Participation in NIRF | **Yes** |
| c)ISO certification | **No** |
| d)NBA or any other quality audit | **Yes** |

6.5.7 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|---|---|---|---|---|---|
| **2019** | **Faculty Performance based appraisal system** | **11/02/2019** | **11/02/2019** | **11/02/2019** | **167** |
| **2018** | **Procurement of equipment preferably through Government e-Market Place (GeM) portal** | **30/10/2018** | **30/10/2018** | **30/10/2018** | **114** |
| **2019** | **Initiation of University innovation Cell** | **30/01/2019** | **30/01/2019** | **30/12/2019** | **48** |
| | View File | | | | |

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme | Period from | Period To | Number of Participants | |
|---|---|---|---|---|
| | | | Female | Male |
| **International Womens Day** | **08/03/2019** | **08/03/2019** | **52** | **0** |
| **Gender Studies: Significance in the current Scenario** | **02/04/2019** | **02/04/2019** | **34** | **0** |
| **Cancer Facts for Women** | **19/11/2018** | **19/11/2018** | **41** | **0** |
| **Social Media Psychology** | **12/01/2019** | **12/01/2019** | **45** | **0** |
| **Tree plantation activity** | **15/08/2018** | **15/08/2018** | **36** | **0** |

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

| Percentage of power requirement of the University met by the renewable energy sources |
|---|
| **We have roof top solar panel installed at various place of the University and its Hostels. 120 number of solar street lights are installed at various places** |

of the University and residential area of students, faculty and staffs. The installed capacity of the substations of University is 4 MVA. Installed Solar plant capacity is 20 KW. The renewable energy sources cater 5 of power requirement of the University. Optimal use of power in Campus. Installation of Solar Rodent and Snake repellents in Hostel. Improving social involvement of the students through SANSKAR KENDRA and NSS.

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
| --- | --- | --- |
| Physical facilities | Yes | 8 |
| Provision for lift | Yes | 8 |
| Ramp/Rails | Yes | 8 |
| Rest Rooms | Yes | 8 |
| Scribes for examination | Yes | 2 |
| Special skill development for differently abled students | Yes | 5 |

7.1.4 – Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2018 | 15 | 15 | 02/07/2018 | 12 | Blood donation, Cleanliness, Tree Plantation, Personal safety, Voters rights, Traffic Regulations, Plastic ban | Environmental, Societal issues | 4579 |
| | | | View File | | | | |

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

| Title | Date of publication | Follow up(max 100 words) |
| --- | --- | --- |
| Guidelines for Students | 18/09/2018 | Freshers are categorically detailed during the Orientation programme. Subsequently, teaching and non teaching staff look after the general discipline. Mentors will also monitor |

| | | their wards. Any violation will be dealt by Discipline Committee, Dean, Vice-Chancellor and the Management |
|---|---|---|
| Guidelines for teaching and not teaching staff | 02/07/2018 | The General guidelines issued by UGC, AICTE, Government of Odisha,will be issued on the day of appointment and the same will be adhered. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|---|---|---|---|
| University Foundation Day | 01/07/2018 | 01/07/2018 | 400 |
| Independence Day Celebration | 15/08/2018 | 15/08/2018 | 187 |
| Engineers Day | 15/09/2018 | 15/09/2018 | 109 |
| Republic Day | 26/01/2019 | 26/01/2019 | 213 |
| Womens Day Cebration | 08/03/2019 | 08/03/2019 | 126 |

View File

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Implantation and use of solar energy Use of LED bulbs Solid waste management through Vermicomposting Liquid waste management using microbial consortia and use of recycled water for gardening Campus cleaning and greening activities Online admission and transaction Plastic free campus Use of bicycles and public transport

## 7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE – I 1. Title of the Practice: Encouraging multidisciplinary research 2. Objectives of the Practice : To inculcate multidisciplinary research among teachers, scholars and students To create an ambiance and interpersonal research relationship among faculty members for knowledge acquisition and benefit sharing 3. The Context The trend in research now has become multidimensional viewing research problems in different angles. A single research issue will have answers from different fields of research and so involvement of two or more researchers / laboratories has become common across the world. For instance, global issues IOT, Big Data, Cloud computing and its applicability on reaserach are need to be addressed by scientists working on different fields. Hence, to attain global competency in research, promotion of multidimensional research is essential. 4. The Practice Multidisciplinary research is being carried out in the University through various projects 5. Evidence of Success : Summer/Winter Schools / Workshops/Conferences / Training programmes attended by students. Research papers are being published 6. Problems Encountered and Resources Required Further, grant is required in furtherance of the activities 7. Note: To sensitize the necessity and importance of multidisciplinary research the University may have to design strategic plan. Best Practice-II 1.Title of the Practice: Upgradation of Internet connectivity with zero downtime 2. Objectives of the Practice : a.. To upgrade the network architecture to provide the most scalable and resilient

solution b. To increase the bandwidth for the students and staff to access and download various materials from different websites for their academic and research purpose. 3. The Context In this competitive world, students and staff alike need to keep their knowledge updated by accessing academic websites and watching video lectures on latest state of the art technology. Thus, considerable bandwidth is required to satisfy their needs. Almost all the departments in the University are conducting periodic workshops and conferences which require an access to the various websites and the experts in a timely manner. Hence, this mandates the necessity of Internet connectivity with zero downtime. 4. The Practice a. A new data centre with the following facilities has been created: Virtual Switching System has been implemented with the old and the new Data centre in order to have automatic Disaster Recovery (DR). Thus a 3 tier (Core, Distribution and Access) network architecture has been implemented. b. Wi-Fi has been enabled for the entire Campus with a Wireless controller, Indoor and outdoor access points, including L3 distribution switches with high speed internet connection. This facility will allow the students and faculty to access the internet at any time and any place round the clock. c. Bandwidth has been increased prgressively based on the needs of the user: d. A Grievance Redressal Portal is in place to receive and act on grievances, reported by the faculty, students and staff. 5 Obstacles faced A huge investment with an approximate cost of 3.0 crores was required to implement the new Data Centre with networking facility. Management of VSSUT Institutions has sanctioned the fund keeping in mind, the growth and welfare of the student community. To implement this state of the art facility, experts in various domains with rich experience were required. Hence, a team of experts in various fields have been formed and by using their expertise and contribution, a fully fledged Data Centre with a sophisticated network facility has been created. 6 Impact of the practice a. Faculty can set up assessments and enter assignment marks through their mobiles. b. Students can leverage the World Wide Web to explore new ideas, prepare for projects/Seminars, and submit assignments round the clock. c. IP based cameras setup throughout the campus and hostels make the campus environment more safe and secure as well as ensuring discipline. d. The Grievance Redressal Portal in place enables the authorities to take timely actions on any issue raised by the students and hence avail services in a more effective manner. e. Infrastructure provides a managed service that gives continuous operation, support, security and flexibility. f. Improvement in core services results in greater profitability, by moving away from daily management of IT infrastructure and problem solving. g. Risk Management: Data is safe as it might reside in two data centres( data duplication) h. Redundancy: The Data centres provide redundant solutions for power, cooling, bandwidth, networking Compute Nodes in Virtual Clusters. i. WAN Bandwidth: 1 Gbps provided by NKN National Knowledge Network is the Primary ISP for the campus network footprint for internet services and a Secondary Backup is provided through Jio service providers, which furnishes the Campus Networks with high Availability on Internet Connectivity. j. LAN Network: LAN Network Compromises of 20G LAN Uplinks from Redundant Core Switches which is deployed in VSS (Virtual Fabric mode) providing seamless connectivity and hitless failover for the users. 7 Resources Required

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://vssut.ac.in/IQAC/documentspdf/University-Best-Practice.pdf

## 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The area distinctive to the vision of this premier University of the nation is

to provide affordable quality higher technical education. In the process of attaining the vision, short term and long term strategic plans have been drawn. Emphasize is being given to initiate various quality measures such as augmentation of physical infrastructure, quality of teaching staff, increase in need based new programmes, quality certification, interaction with other institutions of repute, placement and emerge as an institute of excellence on bar with eminent institutions. To provide an affordable quality higher education to all at all times is the functioning strength, formulating morale and formatting spirit of our University. In order to achieve these things, the University follows a steadfast principle of collecting affordable fee for self-financed stream students. This practice is in vogue since 1995. The University stringently follows Government regulations on reservation policy and merit in admission. No capitation fee is collected in both aided and selffinance stream. Quality standards prescribed by the UGC are strictly adhered in appointing staff members and Career Advance Scheme(CAS) is followed in promotion of Assistant Professors with the committee constituted as per the guidelines of AICTE/UGC and Department of Skill Development and Technical Edication, Government of Odisha and maintain teacher – student ratio as 1:20. Considering the willingness of students in pursuing higher education in this University, programmes are introduced in each department with nominal fees. The research cell, with well defined research policy, motivates teachers and students to pursue research by way of providing facilities and incentives. 123 faculty members are doctorates. There are 352 scholars are persuing research here. In the way of promotion of research, the University houses recognized research centres and a common instrumentation centre with active research evidenced by publications and operation of major and minor research projects. Quality education is complemented with an ever enhanced infrastructure. The university constantly augments its infrastructure, catering to the needs of all levels of academic programmes. The fruition of quality education is career readiness and a lucrative placement. This cell offers precampus training, conducts on-campus placement drives and effectively bridges the gap between the demands of the industries and our skilled students. Every year, the number of students getting placed through on and off campus interviews increases with a reasonable median salary. Socially backward students are facilitated with backward class, scheduled caste and scheduled tribe scholarships from the state government. Economically backward students are helped to get scholarships from State Government and Central Government. Research scholars are given University Scholarship. Besides value based teaching, the University also inculcates values by practice. In our journey towards excellence, the University has been ranked 126th by NIRF in 2019.

| Provide the weblink of the institution |
|---|
| http://vssut.ac.in/IQAC/documentspdf/InstitutionalDistinctiveness-2018-19.pdf |

## 8.Future Plans of Actions for Next Academic Year

Introduction of PG courses in all Engineering Departments.( In the department of Chemical Engineering and Electrical and Electronics Engineering) Conduct of International Conferences, Workshops, FDPs etc. NIRF 2019 ranking status to be applied. Conduct of more job oriented certificate courses. Modernization of laboratories and central facilities. Preparation of annual budget. Conduct of 11th Convocation 2019 on 30th November 2019. Completion of ISRO innovation centre. Creation of new academic building. Inauguration of state of the art Innovation cum Incubation Centre. Functioning of incubation centers and startups Implementation of revised License fee of staff quarters as per A.G./LFA guidelines from 1st June 2019