



Yearly Status Report - 2019-2020

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 Chaudhuri
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	Po: Engineering College, Sidhhi Vihar, Burla, Sambalpur, Odisha
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://www.vssut.ac.in/doc/AOAR-2018-19-Submitted-online-PDF-VSSUT.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-2019-20.pdf																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.76</td> <td>2016</td> <td>19-Feb-2016</td> <td>18-Feb-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.76	2016	19-Feb-2016	18-Feb-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B	2.76	2016	19-Feb-2016	18-Feb-2021														
6. Date of Establishment of IQAC	06-Jan-2015																		
7. Internal Quality Assurance System																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td>Student preplacement</td> <td>30-Sep-2019</td> <td>560</td> </tr> </tbody> </table>			Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries	Student preplacement	30-Sep-2019	560								
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	
Student preplacement	30-Sep-2019	560																	

training	1	
Webinar on Scientific basis of well being behind yoga	21-Jun-2020 1	90
11th Convocation	30-Nov-2019 1	980
Increase students/Staff enrolment for online courses (SWAYAM/MOOCs/ARPIT)	23-Jan-2020 1	540
International Womens'day	08-Mar-2020 1	156
Matribhasha Diwas	20-Feb-2020 1	129
A two-Day NAAC sponsored National workshop on	22-Feb-2020 2	143
NIRF Ranking	31-Dec-2019 1	5000
ARIIA Ranking	07-Aug-2019 1	53000
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
Nil	Nil	Nil	2020 0	0
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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)

Procurement of equipments preferably through Government eMarket Place (GeM) portal Establish Solar panels street lights Faculty Performance based appraisal system Advertisement for CAS Promotion scheme/Regular recruitment for Teachers as per AICTE Provision of Seed money for faculties for the research projects Covid 19 cell formed

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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	Achivements/Outcomes
AISHE Survey Data Submission	Submitted
NIRF-data	submitted
Annual convocation of University	Conducted
Regular recruitment/CAS promotion of teachers	Advertised
Establish incubation centers and startups	Achieved
Students Function Scheduled	All function conducted except VASSAUNT-2020 to be held from 14.03.2020 to 16.03.2020. due to COVID-19 pandemic situation.
Increase students/Staff enrolment for online courses	SWAYAM/MOOCs/ARPIT
Academic Council, Finance Commtte, Building & Works Committee and Board of Management.	Conducted as per statutory requirement
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
IQAC, Academic Council, Board of Management	25-Sep-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

25-Sep-2019

16. Whether institutional data submitted to

Yes

AISHE:	
Year of Submission	2020
Date of Submission	29-May-2020
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
MCA	615	Computer Application	25/06/2020
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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	Chemical Engineering	20/04/2019	0202	20/04/2019
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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
Mtech	Industrial Metallurgy	25/06/2020
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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
MCA	Computer Application	25/06/2020
Mtech	Industrial Metallurgy	25/06/2020

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	30/10/2020	862
Audio Video Systems	01/07/2019	15
Quality Engineering	01/07/2019	10
Human Settlement Planning	01/07/2019	20

and Housing		
E- Commerce ERP	01/07/2019	60
Essence of India Traditional Knowledge	01/07/2019	120
SCADA System and Applications	01/07/2019	15
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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	Chemical Engineering	102
MCA	Computer Application	25
BArch	Architecture	42
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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
<p>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</p>

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
MCA	Computer Application	30	1633	30
BArch	Architecture	20	2386	20
BTech	Chemical Engineering	60	17364	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
2019	3342	403	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	7

[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
4449	234	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	146

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
2020	Nil	IQAC / CIQA coordinator	Nil

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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	2nd Sem	18/07/2020	30/07/2020
BTech	02	1st Sem	20/12/2019	31/01/2020
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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	5107	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/doc/MCA-2yr-Syllabus.pdf>

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	Chemical Engineering	64	63	98
02	BTech	Civil Engineering	122	120	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_19_20.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	Nil	Nil	01/07/2019	Nil
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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
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JRF (ANAMIKA BANDOPADHYAY)	3	AICTE
PDF (Biswajit Parhi)	3	UGC-DSK PDF
RAs (Debashrita Bharatia)	3	NPDF
JRF (SUSANTA BEHERA)	3	AICTE
JRF (HEMANTA BEHERA)	3	AICTE
JRF (RAHUL RAY)	3	AICTE
JRF (SWARNIMA SUBHADARSINI)	3	AICTE
JRF (NISITH GOSWAMI)	3	AICTE
JRF (DEEPAK MOHAPATRA)	3	AICTE
JRF (VALIPILLI SOMESH)	3	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
Projects sponsored by the University	365	TEQIP-III	43	31
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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
Nil	Nil	01/07/2019
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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
IIGP-2.0	Team of Students	Tata Trusts	30/06/2020	Ten Lakhs
Summer Research Internship at Bhaba Atomic Research Centre (BARC) Mumba	Markandeya Mohapatra	BARC, Mumbai	30/05/2020	Training
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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
VSSSIST	VSSUT	ISRO	Rocket launching	VSLV	30/11/2019
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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	4
Electrical Engineering	6
Electronics Telecomm. Engineering	4
Mechanical Engineering	2
Production Engineering	1
Chemistry	4
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.	45	0.9
International	Chemical Engg.	22	0.9

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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	5
Civil Engineering	23

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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
M-charger : Mobile Charger using the energy of our steps	Published	201921005025	19/07/2019
SE - Wheel chair smart Electric Wheel Chair	Published	201921005026	19/07/2019

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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
A comparative study of stability characteristics of	N. Acharya, P. Nanda, S. Panda, S. Acharya	Journal of King Saud University - Engineering Sciences	2019	0.76	VSSUT, Burla	26

mahua and jatropa biodiesel and their blends						
A comparative study of characterization and water absorption behaviour of polyester composites with inorganic and organic fibers	D Mishra, S Mohapatra, A Satapathy	Materials Today: Proceedings	2019	0.96	VSSUT, Burla	3
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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
A comparative study of stability characteristics of mahua and jatropa biodiesel and their blends	N. Acharya, P. Nanda, S. Panda, S. Acharya	Journal of King Saud University - Engineering Sciences	2019	6	26	VSSUT, Burla
A comparative study of characterization and water absorption behaviour of polyester composites with inorganic and organic fibers	D Mishra, S Mohapatra, A Satapathy	Materials Today: Proceedings	2019	5	2	VSSUT, 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/Seminars/Workshops	20	132	10	0
Presented papers	280	9	0	0
Resource persons	5	12	2	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	1850000
Civil Engineering	Material Testing	Various Agency	3760000
Civil Engineering	Consulting services	Various Agency	3580000
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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
Hands-on Training on Solar Study Lamp Assembly Lets Create Non-violence towards Environment	3(O) CTC NCC, VSSUT Burla Assocaition with IIT Bombay Sponsored by TEQIP-III	50	1000
Fit VSSUT Plogging-Fit India Plogging	3(O) CTC NCC, VSSUT Burla Assocaition with Ministry of Youth Affairs and Sports, Government of India.	5	250
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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
Hands-on Training on Solar Study Lamp Assembly Lets Create Non-violence towards Environment	Recognition	IIT Bombay	1000
Fit VSSUT Plogging-Fit India Plogging	Recognition	Fit India, Sports Authority of India	250
India Innovation Challenge Design Contest - 2019	Confederaion of Elite Academicians of IICDC	Texas Instrument, DSt, AICTE and IIM Banglore	200
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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
Student Solar Ambassadoor Workshop, IIT Bombay	3(O) CTC NCC, VSSUT Burla Asscocaition with IIT Bombay Sponsored by TEQIP-III	Hands-on Training on Solar Study Lamp Assembly Lets Create Non-violence towards Environment	50	1000
Fit India	3(O) CTC NCC, VSSUT Burla Asscocaition with Ministry of Youth Affairs and Sports, Government of India.	Fit VSSUT Plogging- Fit India Plogging	5	250
Swachta Bharat Aviyani	3(O) CTC NCC, VSSUT Burla, NSS	Swachta Bharat Aviyani	20	150
Energy Swaraj : "Learn to Design your own Solar System"	Energy Swaraj Foundation	Energy Literate	1	100
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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
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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
Nil	Nil	Nil	01/07/2019	30/06/2020	0
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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
CTTC, Bhubaneswar	24/01/2020	Short term and Pre-Placement training for enhancing the employability of Students	301
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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
1500	1300

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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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 partially)	Version	Year of automation
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KOHA	Fully	18.11	2018
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4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	58000	22500000	125	150000	58125	22650000
Reference Books	5800	3000000	0	0	5800	3000000
Journals	9024	10200000	0	0	9024	10200000
e-Journals	3582	6100000	647	6700000	4229	12800000
Digital Database	2	2460000	1	1100000	3	3560000
CD & Video	25	0	25	0	50	0
Library Automation	1	200000	1	0	2	200000
Weeding (hard & soft)	12256	5200000	0	0	12256	5200000
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	01/07/2019
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	970	18	2	2	1	10	16	1024	0
Added	150	1	0	0	1	0	0	0	0
Total	1120	19	2	2	2	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 incurred on maintenance of physical facilities
2460	1625	3000	1500

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 Maintenance 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, AICTE State loan Stipend, Post Matric scholarship	185	1970000
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 implementation	Number of students enrolled	Agencies involved
Preparing the Students for Competitive Exams	07/08/2019	432	Er.Bimal Mishra, Alumni Association
Remedial Coaching	09/09/2019	86	Mentor departments
Personal Counselling on Career guidance Discipline aspects	14/10/2019	921	Mentor Departments
Preplacement training (Soft Skill)	30/08/2019	923	Resource Person
Preplacement training (Quantitative Ability)	20/11/2019	923	Resource Person
Preplacement training (Logical reasoning)	17/12/2019	923	Resource Person
Employability Skill Training	17/01/2020	911	Aspiring Minds
Employability Assessment Test	03/02/2020	1412	Career Luncher
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	Number of students who have passed in the comp. exam	Number of students placed
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			activities		
2020	Orientation programme for competitive Exam	160	123	67	61
2020	GATE COACHING	200	178	65	54
2019	TIMES Management MBA Coaching	118	123	54	49
2019	Orientation programme for competitive Exam	142	123	52	52
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
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
20	811	601	20	342	211
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	Department graduated from	Name of institution joined	Name of programme admitted to
2020	135	B.Tech	All Deptts.	IIT, NIT	M.Tech
2020	12	B.Tech	All Deptts	IIT, NIT	M.Tech Res
2020	22	M.Sc.	All Deptts	Central University, IIT, NIT	Ph.D.
2020	41	M.Tech	All Deptts	IIT, NIT	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
Any Other	71

NET	6
Civil Services	3
GATE	123
TOFEL	9
CAT	39
GMAT	21
View File	

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

Activity	Level	Number of Participants
Fit VSSUT Plogging - - Fit India on 2nd Oct. 2019	State level	452
71st NCC Day Celebration 2019 at 3(O) CTC NCC, VSSUT Burla on November 24th, 2019	State Level	211
Inauguration of Incubation Centre on 30.11.2019 by Hon,ble Governor of Odisha	VSSUT	623
Boot Camp during 17-18 Feb 2020	VSSUT	345
Matrihasha Diwas on 20.02.2020	ICC of VSSUT	134
International Womensday on 08.03.2020	ICC of VSSUT	121
Scientific basis of well being behind yoga on 21.06.2020	Yoga Club of VSSUT	57
11th ConvocaTion on 30.11.2019	University	1015
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
2019	All India Rank 4, MathWork Minidrone competitions	National	0	0	1702040032	Vartika Singh
2019	All India Rank 4, MathWork	National	0	0	1702060013	Mayank Raj

Minidrone competitions				
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[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 (or his nominee) and faculty members are nominated as Vice-Presidents/Advisors. 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:

41249

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 VSSUT/UCE Kolkata Alumni Chapter organised 2nd alumni meet at Kolkata on Sept 29th 2019 Annual general body meeting Felicitation of 2020 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
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 Practical, 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.

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.2019-20 more than 400 papers published in Indexed journals, and in conferences by faculty and students. Faculty published 2 Books and eight Book chapters

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.

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 website
Conducting 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.

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.

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

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

E-governance area	Details
<p>Planning and Development</p>	<p>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 sheets is 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)</p>
<p>Administration</p>	<p>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)</p>
<p>Finance and Accounts</p>	<p>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 microsoft excel: a. Preparation of salary bills b. Preparation and maintenance of student's fees</p>
<p>Student Admission and Support</p>	<p>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.</p>

	Serial control
Examination	<p>Various activities pertaining to examination are carried out using software. Following tasks are executed</p> <p>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</p> <p>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</p> <p>Our Institute has evidenced several benefits after adopting e-governance 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.</p>

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
2019	Lopamudra Ghadei	Desig Performance analysis of 5G wireless systems	Desig Performance analysis of 5G wireless systems	17650
2019	Goutam Behera	ICASPOT-2019	ICASPOT-2019	19750
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)
2019	Green	NA	26/10/2019	26/10/2019	143	0

	Technology for Sustainable Development					
2019	FDP on Vision Mission Goals PEO PSO PO CO: Framing, Mapping, Assessment	NA	22/10/2019	22/10/2019	187	0
View File						

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
Radiation effect in Materials their characterization through Advanced techniques	1	07/10/2019	11/10/2019	5
Machine Learning AI in image processing using MATLAB Xlkinx sytem generator for DSP	1	08/07/2019	22/07/2019	15
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	Pension, Leave Salary for 300days, Gratuity, Maternity leave, Group Insurance, Uniforms, Credit Society, NPS, Study leave, CL, EL, Medical Leave, Medical reimbursement	Group Insurance, Scholarship, Tution Fee Waiver , SC/ST Welfare,

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
PGCIL, NALCO, NTPC, Tata Steel, Jindal Trust, MCL, CISF, NHRDC, CPMG, Odisha, BSNL	20000000	Development of e-Learning Centre, Scholarship received from different agencies
View File		

6.4.3 – Total corpus fund generated

30000000

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	NBA, COA	Yes	IQAC
Administrative	Yes	NBA, COA	Yes	IQAC

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

Not applicable for Unitary University.

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 Excellence Awards for Teaching staff. Startup and Innovation Cell Felicitation of University student

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	Stress Management for Supporting staff	29/10/2019	29/10/2019	29/10/2019	83
2019	Lecture on Teaching Methodology	03/11/2019	03/11/2019	03/11/2019	49
2019	Lecture on Art of writing research paper	30/12/2019	30/12/2019	30/12/2019	67
2019	Lecture on Outcome Based Education	27/09/2019	27/09/2019	27/09/2019	134
2020	Meditation Programme	21/06/2020	21/06/2020	21/07/2020	54
2020	Workshop on Role of Revised Accreditation Framework for Enhancing the Quality and Innovation in Education	22/02/2020	22/02/2020	23/02/2020	165

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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
Life skills for	02/10/2019	02/10/2019	34	0

women				
Schemes and strategies for women empowerment in India	23/01/2020	23/01/2020	54	0
Social Violence against Women	08/03/2020	08/03/2020	51	0
Yoga for Feminine health	21/06/2020	21/06/2020	42	0
International Women Day	08/03/2020	08/03/2020	131	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
8.7 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
Ramp/Rails	Yes	8
Rest Rooms	Yes	8
Scribes for examination	Yes	2
Provision for lift	Yes	8
Physical facilities	Yes	8

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
2020	1	1	27/02/2020	07	Water Scarcity	Water problem	108
2020	1	1	13/03/2020	1	Green India	Swachhta	67
2020	1	0	30/09/2020	6	Academics	Examination	896
2020	1	1	19/05/2020	2	COVID-19	Stop Spreading Corona	45
2019	1	1	29/10/2019	1	Helmet	Road	67

			9		Awareness	Safety	
2019	1	1	24/09/2019	1	Workshop	Digital India	56
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	30/08/2019	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	09/07/2019	The General guidelines issued by UGC, AICTE, Government of Odisha, will be issued on the day of appointment and the same will be adhered.
Maintenance of Discipline	08/10/2019	In our University number of activities are carried out to percolate human values in students and to build social responsibility, leadership such as Self defense Program. Also committees are formed to maintains freedom of thought, accountability and over all discipline and good ambience.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
University Foundation Day	01/07/2019	01/07/2019	167
Independence Day Celebration	15/08/2019	15/08/2019	179
Republic Day	26/01/2020	26/01/2020	231
Womens Day Celebration	08/03/2020	08/03/2020	124
COVID-19 awareness	19/05/2020	19/05/2020	67
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

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 Product Sl. No Description NGFW 1 NGFW with redundant AC power supplies 2 10GE SFP transceiver module, short range 3 1GE SFP SX transceiver module 4 Subscription for Application Control, IPS, AV, Web Filtering and other needful licenses as per the RFP specification 5 24X 7 Support Contract with OEM TAC 6 Others as per requirement (if any) Switch 1 24 10/100/1000BASE-T(370Watt) POE, 4 SFP combo,4 1GbE unpopulated SFP, upgradable to 10GbE SFP, 1 Fixed AC PSU, 1 RPS port managed switch with 3 Years Warranty 2 1000BASE-LX SFP, MMF 220 550 meters, SMF 10km, LC connector, Industrial Temp RF Component 1 Point to Point 600 MBPS RF Link PoE Antenna Gigabit Surge Suppressor 2 6 meter Tower on building rooftop using galvanized self-supporting pipe based 3 Earthing pit for RF Tower 4 Surge Suppressor copper grounding wire Passive Component 1 High Link Optic- 6 Fibres, Armoured, Uni-loose Tube Cable,OS2 9/125 2 6 Port-Sliding Patch Panel-1U, 2c/o with Future Ready 1BP, 3LCD x1P, 6LC Pigtails - OS2 9/125 3 24 Port-Sliding Patch Panel-1U, 2c/o 6LCD x2P, 24 LC Pigtails -OS2 9/125 4 High Link Optic SC- UPC - LC-UPC Duplex Patch Cords,OS2 9/125 -3 Mtrs 5 Cat6 SF/UTP Cable 6 Supply, Delivery Installation of Wall Mount 9U x 500W x 450D Front Glass door (Tinted Toughened) with Lock Key, 2 Pairs of 19 Mounting Rails Standard Accessories: 1U Cable Manager (1), Hardware Packet (1 Pkt), 6 Socket 5 Amp, Power Distribution Unit (1 No.), Roof Mounted Fan Unit / 90 CFM / 230V AC(1 No.) Service 1 Laying of 6 Core Armoured SM Fibre Cable with 32-40 mm HDPE Pipe through HDD machine - 1 Mtr Depth as per Standard Specs. 2 Installation of LIUs (6 ports) in Racks 3 Installation of LIUs (12 ports) in Racks 4 Splicing of Optical Fibre Cable per core 5 Fibre Testing with OTDR per core Site certification 6 Laying of 4 pair Cat6 STP Cable through PVC Conduit / Flexible pipe 7 Laying of HDPE Pipe with 6 core Fiber (Inter Building) 8 Fixing of Route Marker 9 1m x 1m x 1m Manhole Supply with installation 10 Installation of RF Link

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/IOAC/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 self-finance 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 Education, 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 119th by NIRF in 2020.

Provide the weblink of the institution

<http://vssut.ac.in/IOAC/documentspdf/InstitutionalDistinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

Construction of 4th Floor of Vasundhara Hall of Residence by IDCO Construction of 3th Floor of AGASTHYA Hall of Residence by CPWD Construction of 2nd Floor of Rohini Hall of Residence and water supply connection Renovation of Angira Hall of Residence Construction of Diamond Jubilee Academic cum Administrative Building by IDCO Construction of two nos central kitchen with modern facilities Provision of Lightning arrestor for all hostels and University Building Installation of 2x320 kVA Silent DG set with AMF panel in Pullah Hall of residence. Installation of LED Flood lighting in Pullah Hall of residence Preparation for 12th Annual Convocation of University, NIRF-2021 Data and AISHE Data Purchase of Extra Furnitures for hostels Provision of Catering and Housekeeping services in all hostels. Subscription of WEB of Science Bibilographic data base for three years. Campus networking and installation of Next generation Firewall Provision of Wi-Fi facility in Halls of residences.