The Annual Quality Assurance Report (AQAR) – 2016-17

Submitted By



Veer Surendra Sai University of Technology, Burla

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The Annual Quality Assurance Report (AQAR) of the IQAC for the academic year July 1, 2016 to June 30, 2017

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA

Part – A

I. Details of the Institution

1.1 Name of the Institution	Veer Surendra Sai University of Technology, Odisha
1.2 Address Line 1	P.OEngineering College, Burla
Address Line 2	SAMBALPUR, ODISHA
City/Town	SAMBALPUR
State	ODISHA
Pin Code	768018
Institution e-mail address	vc@vssut.ac.in, vcvssut@gmail.com
Contact Nos.	(0663)-2430211, 2430204(FAX) +91- 9437572477(M)
Name of the Head of the Institution	Prof. Atal Chaudhuri
Tel. No. with STD Code:	(0663)-2430211,
Mobile:	+91- 9437572477(M)

Nar	ne of the IC	QAC Co-ordi	nator:	Dr.Bibhut	i Bhusan Pati		
Mol	bile:			94374204	109		
IQAC e-mail address:				iqac@vss	ut.ac.in		
1.3 NAAC Track ID (For ex. MHCOGN 18879) 1.4 NAAC Executive Committee No. & Date: (For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)							
1.5	Website a	ddress:		www.vssi	ut.ac.in		
	W	eb-link of th	ne AQAR:	www.vs	ssut.ac.in/IQAC		
1.6	Accredita	For ex. h	ttp://www	.ladykeane	college.edu.in/A	AQAR2012-13	3.doc
	Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period	
	1	1 st Cycle	В	2.76	2016	2021	
	2	2 nd Cycle					
	3	3 rd Cycle					
	4	4 th Cycle					
1.7	Date of Est	tablishment o	f IQAC :	Г	DD/MM/YYYY	06.01.2015	

2016-2017

Revised Guidelines of IQAC and submission of AQAR

1.8 AQAR for the year (for example 2010-11)

Accreditation by NAAC ((for example AQAR 2010-11submitted to NAAC on 12-10-2011)
i. AQAR (DD/MM/YYYY)4
ii. AQAR(DD/MM/YYYY)
iii. AQAR(DD/MM/YYYY)
iv. AQAR(DD/MM/YYYY)
1.10 Institutional Status
University State Central Deemed Private
Affiliated College Yes No
Constituent College Yes No
Autonomous college of UGC Yes No
Regulatory Agency approved Institution Yes No
(eg. AICTE, BCI, MCI, PCI, NCI)
Type of Institution Co-education Men Women
Urban ✓ Rural ☐ Tribal ☐
Financial Status Grant-in-aid $\sqrt{}$ UGC 2(f) $\sqrt{}$ UGC 12B $\sqrt{}$
Grant-in-aid + Self Financing Totally Self-financing
1.11 Type of Faculty/Programme
Arts Science Commerce Eaw PEI (Phys Edu)
TEI (Edu) Engineering Health Science Management
Others (Specify)
1.12 Name of the Affiliating University (for the Colleges) It is a non-affiliating unitary University of Govt. Of Odisha
1.13 Special status conferred by Central/ State Government UGC/CSIR/DST/DBT/ICMR etc

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and

Autonomy by State/Central Govt. / University	State		
University with Potential for Excellence		UGC-CPE	
DST Star Scheme		UGC-CE	
UGC-Special Assistance Programme	✓	DST-FIST	٧
UGC-Innovative PG programmes		Any other (Specify)	Centre of Excellence
UGC-COP Programmes 2. IQAC Composition and Activit	ies		
	<u> </u>		
2.1 No. of Teachers	5		
2.2 No. of Administrative/Technical staff	3		
2.3 No. of students			
2.4 No. of Management representatives	1		
2.5 No. of Alumni			
2. 6 No. of any other stakeholder and			
community representatives			
2.7 No. of Employers/ Industrialists			
2.8 No. of other External Experts	1		
2.9 Total No. of members	10		
2.10 No. of IQAC meetings held			

2.11 No. of meetings with various stakeholders:	No.	3	Faculty	3	
Non-Teaching Staff Students	Alumni		Others		
2.12 Has IQAC received any funding from UGC	during the	year?	Yes	No 🗸	
If yes, mention the amount					
2.13 Seminars and Conferences (only quality rela	ited)				
(i) No. of Seminars/Conferences/ Workshop	os/Symposia	a organi	ized by the IQ	QAC	
Total Nos. 2 International	National		State	Institution Level	2
(ii) Themes Faculty Induction Program 2.14 Significant Activities and contributions mad			ed education		
Curriculam Development, Innovative tea audit. Internal Academic audit inspectio International Women's day on 8 th March					

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
1.Orientation & Training programmes to newly joined faculty members	Orientation programme has been conducted on 20 th February, 2017 for the newly joined faculty members.
2. Academic Audit	Academic audits were conducted to ensure completion of syllabus, augmented syllabus, Internal Assessments, Students' Seminar, Projects etc.
3. Automation System	Office automation system has been

	implemented from the academic session
	2016-17 in examination system, result
	etc.
4. Implementation of CBCS	The choice-based credit system has been
system	introduced from the academic session
	2017-18.
5. NBA accreditation of remaining	Effort has been taken to apply for
B.Tech.& M.Tech. programmes	accreditation of the remaining B.Tech.
	and M.Tech. programme by 31st July,
	2018.
6. Selection of teaching and non-	On regular basis as per rules embolished
teaching posts	in Act and Statute of VSSUT
7. Submission of Application &	Civil, Electrical, Mechanical, MCA,
SAR to NBA	Computer Science & Engg and IT
8. E-learning Centre	Inaugurated by Hon'ble Chief Minister.

^{*} Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory b	oody Yes N	бо
Management Syndicate	Any other body	IQAC & HOD/Dean Meeting
Provide the details of the action taken		

Criterion - I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	04	1	0	0
PG	31	0	1	0
UG	12	0	0	0
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others	01	0	0	0
Total	48	1	1	0
Interdisciplinary				
Innovative				

1.2	(i) Flexibility	of the	Curriculum:	CBCS/Core/Elective option	

(ii)) Pattern	of	programmes:
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	Pattern	Number of programmes	
	Semester	47	
	Trimester		
	Annual		
1.3 Feedback from stakeholders* (On all aspects)	Alumni Par	rents Employers tudents	<u> </u>
Mode of feedback :	Online Man	could Co-operating schools (for PEI)	
*Please provide an analysis of the f	eedback in the Annexure	e	
1.4 Whether there is any revision	/update of regulation or	or syllabi, if yes, mention their salient aspects.	
The syllabus and regulations of 2015-16	f UG & PG programmes h	has been revised in the year	
1.5 Any new Department/Centre	introduced during the y	year. If yes, give details.	
Innovation-cum-Incubation Ce	entre, E-learning Centre		

Criterion - II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
217	135	49	25	00

2.2 No. of permanent faculty with Ph.D.

113

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst.	Associate		ate Professors C		Others		Total		
Profes	sors	Profess	ors						
R	V	R	V	R	V	R	V	R	V
30	34	27	37	02	22	0	0	59	93

2.4 No. of Guest and Visiting faculty and Temporary faculty

80	02	
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	34	65	18
Presented papers	25	58	12
Resource Persons	10	24	32

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Lecture Notes uploaded in the University website, e-journal have been subscribed, Evaluated answer scripts are shown to the students.

2.7 Total No. of actual teaching days during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) Double Valuation, Photocopy, Open Code, online multiple choice questions

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

25 10	17
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2.10 Average percentage of attendance of students

80%

2.11 Course/Programme wise distribution of pass percentage :

Title of the	Total no. of students		Ι	Division		
Programme	appeared	Above 9	Above 8	Above 7	Above 6	Pass %
	appeared	CGPA	CGPA	CGPA	CGPA	
B.Tech	804	10%	30%	40%	8%	2%
M.Tech	229	10%	30%	40%	8%	2%
M.Sc.	33	10%	30%	40%	8%	2%
MCA	34	10%	30%	40%	8%	2%
M.Phil	05	10%	30%	40%	8%	2%
Ph.D	09	10%	30%	40%	8%	2%

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- ➤ Internal & External Academic Audit
- Monitor all the academic activities such as syllabus completion and value added courses.
- Monitors the internal assessment test evaluation and suggests for enrichment.

2.13 Initiatives undertaken towards faculty development 225

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	30
UGC – Faculty Improvement Programme	0
HRD programmes	5
Orientation programmes	150
Faculty exchange programme	10
Staff training conducted by the university	14
Staff training conducted by other institutions	10
Summer / Winter schools, Workshops, etc.	6
Invited Lectures	8

2.14 Details of Administrative and Technical staff

Category	Number of	Number of	Number of	Number of
	Permanent	Vacant	permanent	positions filled
	Employees	Positions	positions filled	temporarily
			during the Year	
Administrative Staff	108	20	20	
Technical Staff	72	7	6	

Criterion - III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

The University has a separate SRIC office which is looking after the research and consultancy work. Faculty members are encouraged to submit research projects to various funding agencies like DST, AICTE, CSIR, DRDO, UGC, etc.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	16	07	12
Outlay in Rs. Lakhs	7.50	153.78 lakhs	60.06 lakhs	140.24

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	1	0	0
Outlay in Rs. Lakhs	0	1.5	0	0

3.4 Details on research publications

	International	National	Others
Peer Review Journals	22	75	15
Non-Peer Review Journals	8	14	24
e-Journals	5	6	2
Conference proceedings	14	66	10

3.5	Details	on In	ıpact f	actor o	f pu	blica	tions:

Range	0.1-9	Average	2.5	h-index		Nos. in SCOPUS	297
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3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the	Total grant sanctioned	Received
		funding Agency		**
Major projects	2	AICTE	153.78	Yes
Minor Projects	2	DST	1.50	Yes
Interdisciplinary Projects	2	UGC	6.00	Yes
Industry sponsored				
Projects sponsored by the				
University/ College				
Students research projects				
(other than compulsory by the University)				
Any other(Specify)				
Total			104.48	

3.7 No. of books published	d i) W	ith ISE	BN No.	2	Chapters in	Edited Bo	ooks 3	
3.8 No. of University Dep	•		ISBN N					
	UGC- DPE	SAP [✓	CAS		OST-FIST	me/funds	✓
3.9 For colleges	Auton	Ľ		CPE CE		OBT Star S Any Other	<u> </u>	
3.10 Revenue generated th	nrough (consult	ancy	78 lakhs				
3.11 No. of conferences		Leve	el	International	National	State	University	College
organized by the Instit	ution	Numb Spons agenc	soring	1 TEQIP	10 AICTE/ TEQIP	TEQIP, MCL	6 TEQIP	
3.12 No. of faculty served 3.13 No. of collaborations		Iı	nternati			30	Govt. Org. [6
3.14 No. of linkages create	ed durir	ig this	year	8				
3.15 Total budget for research	arch for	curren	it year i	n lakhs :				
From Funding agency	104.4	8	From	Management	of Universi	ty/College	0	
Total	104.4	8						
3.16 No. of patents receiv	ed this	year	Тур	e of Patent		Nui	mber	
			Nation	al	Applied Granted		4	
			Interna	ntional	Applied		0	
			11101110		Granted Applied		0	
			Comm	ercialised	Applied Granted		0	

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
9	0	6	3	0	0	0

3.18 No. of faculty from the Institution	109
who are Ph. D. Guides	
and students registered under them	303

3.19	No. of Ph.D. awarded by faculty from the Institution	24

3.20 No. of Research scholars receiving the Fello	wships (Newly enrolled + e	xisting ones)
JRF 10 SRF 8	Project Fellows 4	Any other
3.21 No. of students Participated in NSS events:		
	University level 4000	State level
	National level	International level
3.22 No. of students participated in NCC events:		
	University level 200	State level
	National level	International level
3.23 No. of Awards won in NSS:		
	University level	State level
	National level	International level
3.24 No. of Awards won in NCC:		
3.24 No. of Awards woll in Nec.		
	University level	State level
	National level	International level
3.25 No. of Extension activities organized		

University forum 20 College forum

NCC NSS Any other 6

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Sanskar Kendra
- Cleaning in campus as a part of Swachha Bharat Abhiyan conducted by NSS
- Blood Donation Camp
- Computer Literacy to school children
- Skill development to under matric local youths.

Criterion - IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	166.48			
	acre			
Class rooms	62	6 Nos.	State Govt.	68
Laboratories	58			
Seminar Halls	6			
No. of important equipments purchased				
$(\geq 1-0 \text{ lakh})$ during the current year.				
Value of the equipment purchased during				
the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

- · Computerization of Central library.
- · Bar coding system followed.
- Internet services provides with 1 Gbps line Connectivity to University & Halls Examination system has been computerised.
- DELNET & IEEE E-learning materials are available.
- NPTEL materials

4.3 Library services:

	Exi	sting	Newly	added	Total	
	No.	Value	No.	Value	No.	Value
Text Books	85000	2500	2000	40 lakhs	87000	2540
		lakhs				lakhs
Reference Books	13000	200 lakhs	1500	3.00	14500	203 lakhs
				lakhs		
e-Books						
Journals	296	150 lakhs	10	50.00	306	200 lakhs
				lakhs		
e-Journals	5	100 lakhs	1	50.00	06	150 lakhs
				lakhs		
Digital Database						
CD & Video	20	5.00	5	0.25	25	5.25 lakhs
		lakhs		lakhs		
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	450	15	2	2	1	10	16	
Added	50	1	0	0	0	0	0	
Total	500	16	2	2	1	10	16	

- 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)
 - Each department has developed their own computational laboratory with essential software.
 - 1 GBPs internet connection through National Knowledge Network (NKN) available through the academic campus and in the Halls of Residence.
 - Online registration of students at entry level in 2017-18.
 - Automation of academic and examination system
 - Important places are covered under CCTV coverage.
 - Biometric attendance system for faculty & staff
 - Availability of e-resources in the Central Library (ASME, ASCE, IEEE, Science Direct

4.6 Amount spent on maintenance in lakhs:

i) ICT 200 lakhs

ii) Campus Infrastructure and facilities | 1000 lakhs

iii) Equipments 1500 lakhs

iv) Others 200 lakhs

Total: 2900 lakhs

Criterion - V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Internet facility with Wi-Fi connectivity is made available throughout the campus to support the students in enhancing their knowledge with easy digital access.

Induction day for the fresher's, where in all the coordinators & conveners of different committees briefed the students about curricular & extracurricular activities

The University is catering to the needs of students belonging to deprived communities of Scheduled castes, Scheduled tribes, other backward classes and low-income groups. SC and ST Students are encouraged to continue their education by way of Scholarships from Government and Non – Government Organizations

Subject wise special coaching classes for slow learners are conducted during the leisure hours.

Industry Institute Interaction cell builds a good relationship between the Industry and Institute for the welfare of the students by organizing regularly guest lectures, seminars, workshops, conferences, industry visits, internships and campus connect programmes.

Training & Placement Cell organizes various training programmes to mould the students with core competency and employability.

Central Library is equipped with various books, references, journals and e-journals to supplement the thrust of students and to enrich their self-learning ability.

A Grievance Redressal Cell is constituted to address the grievances of the students and parents through feedback.

Student association in each department organizes various programmes to widen their exposure in their respective field.

National Service Scheme [NSS], Rotaract club, & other clubs encourage the students to take part in community development activities.

Student support services like multi-disciplinary forums, association with professional bodies, alumni interactions, student forums / clubs, language laboratory, cash incentives to student achievers are provided.

The undertaking of Anti ragging committee Affidavit has been made.

Students' feedback system is followed to obtain opinion from them about the effectiveness of the faculty and the facilities in the college.

Medical insurance for accidental and risk coverage is offered to all the students Anti-Ragging awareness created among the students.

5.2 Efforts made by the institution for tracking the progression

- ➤ The Dean, Students' Affairs, Dean, Academic Affairs and Dean, PGS&R offices look after and to support the students in various academic as well as curricular activities.
- ➤ Appeal & Grievances Committee and Sexual Harrassment Committee have been formed to help the students.
- ➤ Head of the Department and Warden of Halls are in touch with the parents with the progress of wards and to elicit their views on various issues.
- ➤ Department meetings are being conducted twice in a month to monitor the progress of the action plan.
- Academic audit is being conducted every semester to evaluate the progress.
- 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3848	820	300	0

(b) No. of students outside the state

120

(c) No. of international students

0

	No	%	
Men	3504	70	Women

No	%
1464	30

Last Year				This Year							
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physical ly Challen ged	Total
3986	278	470			4734	4175	297	496			4968

Demand ratio

Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Dean, CDCE is organizing the coaching classes for the students to face competitive examinations like GATE, GRE, CAT, etc.

The department specially conducts special coaching to the students for competitive examinations.

Experts are invited to motivate and provide training to the students for competitive examinations like GATE, CAT, UPSC, OPSC etc.

No. of students beneficiaries

200

	5.5 No. of students qualified in these examinations									
NET		SET/SLET	GATE		CAT					
IAS/IP	S etc	State PSC	UPSC		Others					
5.6 Details of student counselling and career guidance										
There is a proctorial system in the University Training and Placement Cell which provides Career Counselling to the students.										
No. of students benefitted 4900										
5.7 Details	of campus place	ment								
		On campus			Off Ca	ımpus				
	Number of ganizations Visited	Number of Studer Participated	nts Number Students I		Number of Stu	udents Plac	ed			
	24	876	754							
5.8 Details of gender sensitization programmes										
5.8 Details	of gender sensiti	zation programme	s							
• N	Women Develor Confidence levelonternational Wappreciate the repersonal and active and Prana	zation programme opment Cell org el of girl stude Vomen's Day emarkable contril ademic related pr yam programmes amme on general	ganizes severants for their was celebrate oution of wom oblems of works conducted in	empowed which en to our men are of Halls of	erment in the is an opposociety. Counselled an Residence.	he society ortunity t				
• V 6 1 8 • I • I	Women Develor confidence level international Wappreciate the repersonal and active and Prana and Confidence induction programme induction programm	opment Cell orgel of girl stude Vomen's Day emarkable contribated programmes	ganizes severants for their was celebrate oution of wom oblems of works conducted in	empowed which en to our men are of Halls of	erment in the is an opposociety. Counselled an Residence.	he society ortunity t				
• V 6 1 8 • I • I	Women Develor Confidence level on ternational Was appreciate the repersonal and activities and Prana and activities	opment Cell orgel of girl stude Vomen's Day emarkable contribated programmes	ganizes severa nts for their was celebrate oution of wom roblems of wo s conducted in etiquette duri	empowed which en to our men are of Halls of ng study.	erment in the is an opposociety. Ecounselled an Residence.	he society ortunity t				
• N	Women Develor Confidence level on ternational Was appreciate the repersonal and activities and Prana and activities	opment Cell orgel of girl stude Vomen's Day emarkable contribated programmes amme on general oparticipated in Spo	ganizes severa nts for their was celebrate oution of wom roblems of wo s conducted in etiquette duri	empowed which en to our men are of Halls of ng study.	erment in the is an opposociety. Ecounselled an Residence.	he society ortunity to and solved.				

National level

International level

Issue of mark sheets and all certificates streamlined.

Solid waste treatment measures taken in the academic and residential areas

State/ University level

Criterion - VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION OF THE UNIVERSITY

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

MISSION OF THE UNIVERSITY

VSS University of Technology strives to create values and ethics in its products by inculcating depth and intensity in its education standards and need based research through

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

Steps are being taken to introduce MIS

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

In order to keep the students turned to the latest trends in the emerging areas and also to go in the line with the industrial needs and global competition, the curricula and syllabi are updated once in four/five year. However, the content of the syllabi can be changed every year if required. The major industries plays a significant role in curriculum development of the University. Each department takes inputs from the industries regarding the curriculum. The Industry personnel are also included in the Board of Studies.

6.3.2 Teaching and Learning

- > Student seminars, group discussions and brain strorming sessions have been conducted.
- Students take up mini project work
- Experimental learning is achieved in laboratory classes.
- > Outcome based education method has been followed
- Creation of learning environment in classes
- ➤ Industrial visit, guest lectures, workshops, seminars.
- ➤ Teaching and Learning process is strengthened with the help of e-learning resources.
- ➤ Faculty development programmes and in-service training are conducted once in a year to enrich their teaching-learning methods.
- Remedial classes are given to weaker students.
- Mentoring and counselling of slow learners are part of teaching and learning process
- ➤ Organising soft skill and personality development classes
- ➤ Use of digital learning resources

6.3.3 Examination and Evaluation

The University is following semester system in all the programmes. The timely publication of result is a major strength of the University. One internal examination, Quiz / assignment / technical presentation given due wightage. Showing answer scripts to the students before the publication of result makes the system more transparent.

6.3.4 Research and Development

- ➤ SRIC office is established with an objective of promoting research by faculty members in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. This office encourages the faculty members for applying research proposals/ projects and receiving funds from various sponsoring research agencies. Faculty members are provided financial assistance from TEQIP fund for for participating in conference, Symposia, Faculty Development programmes, Seminars etc.
- Encouraging faculty to organize, attend and present papers at state/ national/ international conferences and seminars.
- Faculty members are motivated to publish their research papers in reputed national and international journals / conferences.
- Faculty members guide the students to carryout research under student project

Library:

The Central Library of the University is having an area of 10,900 sq.ft. The Library is fully automated by using SLIM 21 automation software. The Central Library has sufficient e-journals which include Science direct and DELNET & IEEE etc. and sufficient back volumes for all the departments. Digital libraryfacilities with National and International online journals are also provided in the Central The library building is enabled with Wi-fi facility. Every year, additional volumes of books are added based on the requirements from all the departments. Further, all the engineering departments have developed their departmental Library for the benefit of the students in PG and Ph.D.

ICT:

The University has central facilities like Central Internet Facilities, Central Computer Facilities which provides all ICT tools to UG, PG and Ph.D. students. The University has smart class rooms and e-learning centres which provide basic needs of the students in solving their problems in research and development.

Physical infrastructure/instrumentation:

The PIC, Civil Works and campus supervisor is monitoring the maintenance of academic infrastructure and other facilities. The PIC, Horticulture looks after the maintenance of Central Lawns and green landscape.

The green ambience of the campus is maintained by the civil maintenance section of the University.

6.3.6 Human Resource Management

The University is maintaining teacher student ratio i.e. 1:20. At present, 309 teaching posts have been sanctioned by the Govt. Of Odisha for various departments and University. The posts are filled up through open advertisement on all India basis.

The University has been arranging orientation programmes for the newly joined faculty members of the University every year.

Incentives are given to the faculty members for uploading lecture notes in the University website.

Incentives are given to the faculty members for presenting research papers in reputed Journals / International and National Conferences.

Faculty members are supported financially through TEQIP to attend Conference / Workshop & FDP conducted outside the University.

Each faculty members were funded with a seed grant of Rs.1.00 lakhs to create ecosystem for research.

6.3.7 Faculty and Staff recruitment

The faculty and staff recruitment have been made through open advertisement in the leading news papers of Odisha and India. The selection is made through a Selection Board as per the guidelines of VSSUT Act and 1st Statute.

6.3.8 Industry Interaction / Collaboration

The University emphasizes upon career development of the students. This can be achieved by establishing MoUs with reputed core industries to enhance Industry-Institute Interaction activities like internships, industrial visits, value added courses, industrial projects, guest lectures etc., for the benefit of students.

- 1) Infosys Ltd, Bangalore
- 2) NI System (India) Pvt. Ltd, Bangalore
- 3) SKF India Ltd, Pune
- 4) Tech Mahindra, Pune

The University also signed MoU with the following foreign Universities for faculty exchange programmes

1) University of New Orleans, USA

Entrepreneur Development Cell is also functioning for enhancing the industry-institute relationship. The Entrepreneurship Awareness Camps are conducted every year by the Cell.

6.3.9 Admission of Students

Admission to B.Tech. programmes is made based on the all India rank secured in JEE(Main) conducted by CBSE. Admission to various M.Tech., M.Sc, Int. M.Sc., M.Phil and Ph.D. programmes are conducted by the University. Admission to B.Tech. (Lateral Entry) & MCA programmes are based on rank through OJEE.

6.4 Welfare schemes for

Cadre	Scheme	Benefitted
Teaching	8	234
Non teaching	6	230
Students	2	4900

6.5 Total corpus fund generated	285.4 lakhs				
6.6 Whether annual financial audit h	as been done	Yes	✓	No	

6.7 Whether Academic and Administrative Audit (AAA) has been done?

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	Audit Type External		ernal	Inte	ernal				
		Yes/No	Agency	Yes/No	Authority				
	Academic	No	-	Yes	University Committee				
	Administrative	Yes	CAG, LFA	Yes	University Committee				
6.8 Do	6.8 Does the University/ Autonomous College declares results within 30 days? For UG Programmes Yes No								
6.9 W	Fo hat efforts are made by	r PG Programme		✓ No lege for Exam	ination Reforms?				
	1) Showing ans	swer scripts to t	he students						
	2) Timely publ	ication of result	ts						
	3) Supplementa	ary examination	1						

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The University is an Unitary one. It has enjoyed administrative, academic and financial autonomy.

- 6.11 Activities and support from the Alumni Association
 - Alumni Meets are conducted every year. Global Alumni meet is also conducted from time to time. The Alumni Association is providing assistance in building the Golden Jubilee Gate, Seminar Hall etc.
 - ➤ Alumni are invited to visit the University for guest lecturers & interaction with students to enhance the knowledge & skills of the students.
 - The alumni help in bringing industries and companies for campus Placements and provides employment opportunities to the students
 - ➤ The Alumni entrepreneurs motivate and guide the students to become entrepreneurs.
 - ➤ The Innovation and Idea Club provides necessary knowhow and manufacturing facility for pitching of idea, product development and apply for intellectual property rights.

6.12 Activities and support from the Parent – Teacher Association

- ➤ The parents are invited in the Orientation programmes organised by the University every year.
- ➤ The parents get an opportunity to interact with the faculty advisors and heads of the departments to know about their ward's performance and study.
- ➤ They are also invited to attend the meeting arranged for NBA, NAAC team visit from time to time. A feedback system is also introduced by the University.

6.13 Development programmes for support staff

The University is organising Skill development programmes for the supporting staff of the University and local unemployed youth. The Computer Science & Engg. department of the University organises Computer Awareness programmes for the supporting staff of the University.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- > Solar street lights inside the campus
- ➤ Rain Water harvesting
- > Energy conservation
- Use of renewable energy
- > Green Environment and Regular tree planting.

Criterion - VII

7. Innovations and Best Practices

- 7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.
 - Lecture notes and lesson plan prepared by each faculty.
 - > Improving soft skills of the student through training and placement.
 - Improving teaching and technical skills of faculty by various programmes.
 - > Increasing placement opportunities for the student.
 - ➤ Improving social involvement of the students through SANSKAR KENDRA and NSS.
 - ➤ Value added courses improves the technical skills of the student.
 - ➤ Most of the UG & PG courses are accredited by NBA. Steps are being taken to get all the programmes accredited.
- 7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Training & Placement Department conducted placement drives for the students.

24 Nos. of companies visited the University and 754 Nos. of students got offers from Campus Recruitment Programme.

Expert lectures, Seminars and events conducted for the students.

- 7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)
 - 1) Non-negotiable academic calendar
 - 2) Faculty Drive Higher studies and research

*Provide the details in annexure (annexure need to be numbered as i, ii,iii)

- 7.4 Contribution to environmental awareness / protection
 - 1) Conducting Blood Donation Camp by SSG society
 - 2) Collection of seeds from locally flourished trees and distribution of these seeds among various halls of residence.
 - 3) Developing plantation in University and Hall premises
 - 4) Optimal use of power in the campus
 - 5) Solar power and back up

7.5 Whether environmental audit was conducted?	Yes	No	✓
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7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths:

Highly qualified and experienced faculty members with doctorates

Premier Institute with strong alumni support

Top rank students take admission

TEQIP & RUSA funded University

Weakness:

Less number of patents

Faculty exchange programme

Students exchange programme

Industries supported laboratories

Opportunities:

Potential to contribute to economic development of region

Introduction of more innovative programme

Introduction of value added and skill development programmes

Curriculum and syllabus can be updated regularly to meet the ever changing industry requirements.

Challenges:

Collaboration with foreign universities to promote study abroad and student exchange programme

Inculcate ethical values in the mind of students

To upgrade laboratories

Collaboration with foreign Universities for faculty exchange programme

8. Plans of institution for next year

- Enhance of student projects.
- Develop Research ecosystem
- Modernisation of Laboratories
- New Centre of Excellence
- More International conferences

Name Dr. Bibhuti Bhusan Pati Name Dr. Atal Chaudhuri

Signature of the Coordinator, IQAC

IQAC, VSSUT Odisha-768018 Signature of the Chairperson, IQAC

Vice-Chancellor

VSS University of Technology, Odisha

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