



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**JSS ACADEMY OF TECHNICAL EDUCATION,  
BANGALORE**

DR. VISHNUVARDHAN ROAD, SRINIVASAPURA POST  
560060

<https://www.jssateb.ac.in>

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**April 2022**

# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

JSS Academy of Technical Education, Bengaluru (JSSATEB), a Self-financing private entity was established in the year 1997, under the umbrella of JSS Mahavidyapeetha (JSSMVP), Mysore. JSSMVP was established in the year 1954 by His Holiness Jagadguru Dr. Sri Shivarathri Rajendra Maha Swamiji. Mahavidyapeetha has been described by many eminent educationists as an Institution more than a university. Under its aegis a child can begin its education in the Kindergarten and proceed to earn a degree as well a doctorate in several branches of learning. Simultaneously the Mahavidyapeetha has initiated innumerable activities and services to strengthen the roots of our ancient knowledge, wisdom and culture and their applications in the day-to-day life. Sanskrit Pathashalas, Yoga Kendras, Spiritual Retreats, Gurukulas, Art and Cultural forums are few of the services. JSS Mahavidyapeetha has become a center of learning that guide and manage more than 310 institutions spread throughout Karnataka, Tamil Nadu and Uttar Pradesh states. JSSATEB is the result of the vision of His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji to proactively participate in establishing a world class Institution for Technical Education. The Institute is located on a hilly green 21.17 acre campus on the Utarahalli-Kengeri main road which is in close proximity to Rajarajeshwari Nagar on the south-western region of Bangalore City.

The college is recognized by AICTE and affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka. It offers Nine BE programs, one B.Sc (honours) and two M.Tech programs in Engineering along with a Post Graduate program in Business Administration.

The Institute has strong Governing Council headed by His Holiness Jagadguru Sri Sri Shivarathri Deshikendra Mahaswamiji, President, JSSMVP as Chairman, members from officers of the JSSMVP, Eminent personalities in the society, Academicians, Faculty Representatives and Industry experts. It consists of eminent persons like Justice Sri. Shivaraj V Patil, Prof. M.H. Dhananjaya, representatives from Corporate, Director of Technical Education, AICTE Nominee and VTU Nominee.

All UG programs of the institute are accredited by NBA, NIRF Ranking and Gold recognition by QS I Gauge. Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2021 has recognized the institute in the "PERFORMER" band.

### **Vision**

To be among the finest Institutions providing Engineering and Management Education empowered with Research, Innovation and Entrepreneurship.

### **Mission**

**M1:** Strive towards Excellence in teaching-learning process and nurture personality development.

**M2:** Encourage Research, Innovation & Entrepreneurship.

**M3:** Train to uphold highest ethical standards in all activities

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

### **Institutional Strength**

- Dynamic Leadership of Management
- Dynamic vision of Management
- Availability Green Eco system - Infrastructure
- Availability of Knowledge Resource centre
- Research oriented faculty
- A strong Alumni Network
- Science and Technology Entrepreneurship Ecosystem

### **Institutional Weakness**

- Lack of Foreign students in the campus
- Industry experts' participation in teaching is minimal
- Inadequate commercialization
- Over-reliance on IT sector for campus Placements.
- Low networking with other higher learning Institutions

### **Institutional Opportunity**

- Education Policy revision for Collaboration with Foreign Universities
- Scope for Contemporary Interdisciplinary programs
- Scope for Global Accreditation
- Funding support for Collaborative Interdisciplinary Research
- Government encouragement for Entrepreneurship Development
- Change in Lifelong learning through continuous education attitude
- Industry expert's inclination towards Academics

### **Institutional Challenge**

- Attracting competent Faculty
- Promoting Blended Teaching, Learning and Evaluation system
- Value Resource augmentation
- Attracting core Engineering Placement companies
- Change -Attuning to changing Government needs.

## **1.3 CRITERIA WISE SUMMARY**

## **Curricular Aspects**

The Institution ensures effective curriculum delivery through a well-planned and documented process. The institution follows the Choice Based Credit System (CBCS) curriculum provided by VTU. Faculty of the institution actively participates in the curriculum design/syllabus revision process conducted by the University assisted by members of Board of Studies (BoS). The curriculum implementation and monitoring processes are well developed. The curriculum offers sufficient number of elective courses in all the UG, PG and Ph.D programs. Institute emphasize on practicing various innovative teaching methods for curriculum delivery. Academic calendar at the institute and the department level are prepared in-line with the academic calendar of the University before the commencement of the semester. The faculty prepare course plan as per the course contents. The implementation of the academic calendar and proper delivery of the curriculum is regularly monitored by Head of the Department.

Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting certificate courses, seminars and tie-ups through MoU's with leading industries. Human Values, Environment and Sustainability are sensitized through programmes of social awareness and community services under NSS activities. The students undertake project work/field work/ internships as part of the curriculum. The institute caters to the needs of slow learners through additional inputs in remedial classes. The institute has transformed the University curriculum into Outcome Based Education (OBE). The institute regularly collects feedback on curriculum & teaching learning processes. Corrective measures are taken based on the feedback from all the stake holders.

## **Teaching-learning and Evaluation**

Teaching learning process is made "Learner centric" and OBE is practiced. Various innovative learning processes are being practiced with the key objective to make a student 'life- long learner.' This is achieved by incorporating student centric learning process through Collaborative, Experiential, activity and project based learning. The institute inspire the use of ICT based teaching learning process. The students are admitted through the centralized admission process.

The institute has qualified permanent faculty in which 35 percent of them with doctoral degree with average teaching experience of 10 years. The faculty recognize the fast and slow learners amongst the students. Fast learners are facilitated with process of enrichment of academic excellence courses, involving in innovative projects and research paper publishing. Slow learners are recognized on the basis of their performance. Appropriate supportive techniques like Remedial classes, Bridge courses and Academic mentoring system is adopted.

Vision, Mission, PEO, PO, PSO & CO statements are well informed and understood by all the stakeholders. Mapping of CO to PO, PO to PEO is computed and calibration of various inputs for teaching and learning process is initiated. The Institute has adopted continuous improvement in teaching and learning process.

The Evaluation process is transparent. Students are evaluated on a continuous assessment system, including of written examinations, class seminars, and assignments. The average student success rate is 96 percent. Academic Audit is conducted for continuous improvement. The process ensure fair and uniform conduction, evaluation of examination and information dissemination among stakeholders.

## Research, Innovations and Extension

The JSSATEB has well defined Research, Innovation and Extension policies and provides support for financial and academic activities. Policies provide timely administrative decisions to enable faculty to submit research and consultancy **project proposals** and approach funding agencies for mobilizing resources for research.

The institute encourages interdisciplinary and interdepartmental collaborative research activities and resource sharing through Centre for Interdisciplinary Research (CIR). Faculty publish research articles in WoS and Scopus indexed Journals. In last five years, number of publications in the indexed journals has increased from 18 to 177.

The Institute has created JSSATEB-STEP, an ecosystem for **innovation** including incubation and other initiatives for creation and transfer of knowledge. A separate Incubation space of 1000 Sq. feet with 7 cabins.

Extension activities are integrated with curricula intended to help, serve, reflect and learn. The curriculum-extension interface has an educational value; especially in rural India. The characteristics like Leadership, Responsibility, Socialization, Higher Self Esteem and Essential Life Skills etc. are developed in the students through **NSS and Yodha** forums conducts activities like blood donation camps, health checkup camps, creating to support free knowledge dissemination centers at rural parts and promoting various socially relevant issue awareness drives like Swatch Bharath Abhiyan, Walkathons etc.,

Various programs are conducted to imbibe and inculcate leadership qualities amongst the students and faculty viz., Goal Setting, Team Work, Prioritization, Time Management, Problem Solving, Analytical Thinking, and Public Speaking.

## Infrastructure and Learning Resources

The campus is located on a sprawling 21.17 acres land surrounded by lush green plantation on the South-Western region of Bengaluru City. The Institute has infrastructure with state-of-the-art equipment and machinery as laboratory facilities. The Institution has adequate facilities like classrooms, seminar / conference halls, workshops, laboratories. Ample space is available to conduct cultural activities, sports, games (indoor, outdoor), gymnasium, yoga etc. In total 57 classrooms and four seminar halls with ICT facilities are available.

The institute has a maintenance section headed by the maintenance engineer to oversee the academic and support facilities in the campus. The maintenance engineer conducts periodic checks to ensure the efficiency/working condition of the infrastructure. The equipment, instruments, infrastructure and other facilities require continuous maintenance and repair. The transportation facility is provided to commute students & faculty.

The library is automated using the Integrated Library Management System (ILMS) LIBSOFT software. LIBSOFT is the ILMS software that is fully automated in nature and used from the year 2015 for Circulation, Procurement, online public access catalog (OPAC) and Project reports collections. Library is housed on two floors with a carpet area of 2100 sq.m. Institute frequently updates its IT facilities including Wi-Fi. The student to computer ratio for the latest completed academic year is 4:1. The bandwidth of internet connection in the Institution is 500 Mbps.

## **Student Support and Progression**

The institute has defined process for scholarships and free ships provided by the Government and institution / Non-Government agencies.

The Institute has transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases by Implementation of guidelines of statutory/regulatory bodies, Organization wide awareness and undertakings on policies with zero tolerance, Mechanisms for submission of online/offline students' grievances and Timely redressal of the grievances through appropriate committees is assessed.

The students are encouraged to participate in various administrative, co-curricular and extracurricular activities conducted by intra / inter-collegiate activities. The student's participation in activities has increased substantially over the last five years. The students have received awards, certificates and medals in various sports/cultural activities at University/ State/ National/ International level.

The soft skills, Life skills (Yoga, physical fitness, health and hygiene) and ICT/computing skills are provided at various levels.

Students are continuously motivated for competitive examinations and career counseling offered by the institution. The students appearing in state / National/ International level examinations has increased in last five years. Students' progression is assessed by calculating average percentage of placement of outgoing students.

Alumni association has more than 9000 alumni since 1997. For the last five years Rs. 16.5 Lakhs membership fees is collected and utilized to conduct various students support activities.

## **Governance, Leadership and Management**

Institution has a well-defined governing council which is headed by spiritually governed personality as chairman and consisting of eminent personalities in the council and the faculty members. The organization has various committees for the overall development and administrative purposes which in turn monitored by the Principal and Management. Faculty members are being involved in the administrative activities as well as decision process. In order to provide quality education to the students and helping to the society the institute has various strategies to inculcate the required skill sets. Institute has reinforced with NBA, NIRF, ARIIA, QS I Gauge and other for establishing world class standards. The policies are established for welfare of students and staff. Faculty have been attending various developmental programs for enhancement of their knowledge and to impart the latest technology to the student's community. The process, policies of the academic as well as account statements are published to the stakeholders in the institute website. Institute has MoUs with many industries for interaction with students and staff members in order to gain real time experiences and technology, the Departments have established industry supported laboratories. In order to monitor and guide for future improvement, an Internal Quality Assurance Cell (IQAC) is formed to look after the quality in the campus. A well-defined Staff appraisal system is in place. E-governance system is established for admissions, accounts, examination and library for streamlined information flow.

## **Institutional Values and Best Practices**

The institution strives to uphold human values and adopts good practices to maintain the integrity of its

stakeholders. The mission of JSSATEB is to create, transfer and preserve knowledge in society.

JSSATE Women Cell organizes numerous events, awareness programs and holds several interactions with the students & faculty. The issues addressed here are maladjustment, academic performance anxiety, low esteem, etc. The institute has facilities for physically challenged like ramps, toilets, scribes etc. Every year the institute organizes national festivals and birth / death anniversaries of the great Indian personality viz., social reformers and freedom fighters.

The Institution conducts multiple extension activities like tree plantation, Swatch Bharath Abhiyaan etc. Steps towards carbon neutrality, e-waste & hazardous managements, conservation of energy and water are undertaken. Rain water harvesting is in place to assure an independent water supply during water restrictions. Further, Green Audit and Energy Audit of the campus are carried out.

The institute has an excellent, experienced and dedicated faculty members are the pillars of strength. Apart from all-encompassing academics, the Institute provides Industry Interface, Performance enhancing support programs, training and Career support programs, multiple skill acquisitions, orientation and induction programs, scholarship and rewards for the deserving students. The most distinctive feature is in-line with the institute's vision and mission.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	JSS ACADEMY OF TECHNICAL EDUCATION, BANGALORE
Address	DR. VISHNUVARDHAN ROAD, SRINIVASAPURA POST
City	Bangalore
State	Karnataka
Pin	560060
Website	<a href="https://www.jssateb.ac.in">https://www.jssateb.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Bhimasen Soragaon	080-28612565	9448234414	080-2861270 6	principal@jssateb. ac.in
IQAC / CIQA coordinator	Aravinda H S	080-28612797	9742265523	080-2861264 6	aravindhs@jssateb. ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	10-08-1997



**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Karnataka	Visvesvaraya Technological University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date	View Document
2f of UGC	24-05-2017	<a href="#">View Document</a>
12B of UGC		

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	02-07-2021	12	

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes <a href="#">autonomydoc_1647068432.pdf</a>
If yes, has the College applied for availing the autonomous status?	No

<b>Recognitions</b>	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	NIRF-2020: Ranked in the band of 251-300, NIRF-2018: Ranked in the band of 151-200, NIRF-2017: Ranked in the band of 151-200, ATAL Ranking of Institution on Innovation Achievements – 2021
Date of recognition	29-12-2021

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	DR. VISHNUVARDHAN ROAD, SRINIVASAPURA POST	Urban	21.17	35572

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Civil Engineering	48	XII	English	60	32
UG	BE,Electronics And Communication Engineering	48	XII	English	180	168
UG	BE,Electronics And Instrumentation Engineering	48	XII	English	60	45
UG	BE,Computer Science	48	XII	English	180	176

	And Engineering					
UG	BE,Information Science And Engineering	48	XII	English	120	118
UG	BE,Mechanical Engineering	48	XII	English	90	34
UG	BE,Robotics And Automation	48	XII	English	30	22
UG	BE,Artificial Intelligence And Machine Learning	48	XII	English	60	59
UG	BSc,Basic Sciences	48	XII	English	60	3
PG	Mtech,Electronics And Communication Engineering	24	BE	English	12	0
PG	Mtech,Computer Science And Engineering	24	BE	English	12	1
PG	MBA,Master Of Business Administration	24	Any Degree	English	60	60
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	48	MTech	English	6	0
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	48	MTech	English	31	2
Doctoral	PhD or DPhi	48	MTech	English	5	0

(Ph.D)	I,Electronics And Instrum entation Engineering					
Doctoral (Ph.D)	PhD or DPhi I,Computer Science And Engineering	48	MTech	English	33	16
Doctoral (Ph.D)	PhD or DPhi I,Industrial Engineering And Management	48	MTech	English	9	0
Doctoral (Ph.D)	PhD or DPhi I,Mechanical Engineering	48	MTech	English	37	7
Doctoral (Ph.D)	PhD or DPhil,Master Of Business Adminitratio n	48	MBA	English	9	2
Doctoral (Ph.D)	PhD or DPhil,Physic s	48	MSc	English	14	0
Doctoral (Ph.D)	PhD or DPhi I,Chemistry	48	MSc	English	15	1
Doctoral (Ph.D)	PhD or DPhi I,Mathematic s	48	MSc	English	20	2

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	21				38				129			
Recruited	15	0	0	15	18	8	0	26	57	72	0	129
Yet to Recruit	6				12				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				54
Recruited	37	16	0	53
Yet to Recruit				1
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				106
Recruited	85	20	0	105
Yet to Recruit				1
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	0	0	18	8	0	21	13	0	75
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	34	54	0	88
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	2	5	0	7
UG	0	0	0	0	0	0	0	0	0	0

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1732	343	0	0	2075
	Female	870	93	0	0	963
	Others	0	0	0	0	0
PG	Male	61	1	0	0	62
	Female	54	0	0	0	54
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	75	2	1	0	78
	Female	47	0	0	0	47
	Others	0	0	0	0	0



<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	30	31	32	14
	Female	15	18	15	18
	Others	0	0	0	0
ST	Male	4	9	8	4
	Female	2	2	3	2
	Others	0	0	0	0
OBC	Male	100	154	145	105
	Female	65	77	72	51
	Others	0	0	0	0
General	Male	212	248	317	250
	Female	97	160	159	111
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
<b>Total</b>		<b>525</b>	<b>699</b>	<b>751</b>	<b>555</b>

### **Institutional preparedness for NEP**

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>In order to bring into force, the aspirations of New Education Policy 2020 for holistic multidisciplinary education, the affiliating university (VTU) has introduced the following multidisciplinary courses from first year to final year from the academic year 2021-22. Few of such courses are: a. Ability Enhancement Courses (AEC) – Innovation &amp; Design Thinking; Scientific Foundations of Health; Communicative and Professional English. b. Skill Development Courses (SEC) – The laboratory contents, field visits, presentation contents, etc. are made compulsory in almost all the courses. c. Open Elective Courses from other disciplines – Students from a specific discipline have to choose 3-4 courses</p>
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	<p>from other courses. JSSATE, Bengaluru, being affiliated to VTU, follows the curriculum recommended by the university. In addition, the institute organizes student development programmes in different domains to enhance the employability of the students.</p>
2. Academic bank of credits (ABC):	<p>A system for maintaining the credits earned by each student in each semester is in place. The examination section of the institute takes care of this process. This will enable the institute to issue the credits earned to the students as and when the affiliating university introduces the concept of multiple exit and entry options.</p>
3. Skill development:	<p>The curriculum recommended by the affiliating university has many courses that have laboratory contents embedded in. This enables students to understand theory as well as its practical applications of the courses. Moreover, the university has given flexibility to the students to choose the courses as electives from other disciplines. Additionally, the institute organizes a host of hands-on student development programmes to offer skills in different domains.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>The affiliating university has introduced the B.E program in the language of the mother tongue of the students as a pilot project. Presently, the scheme is introduced with the selected few colleges to offer the degree in Kannada language. JSSATE, Bengaluru is preparing to offer few courses in local language as and when the affiliating university grants permission. The use of technology platforms such as SWAYAM/DIKSHA/NPTEL for online training of teachers are being encouraged in local language as per the expectations of NEP 2020.</p>
5. Focus on Outcome based education (OBE):	<p>Outcome-based education (OBE) is an education theory that emphasizes on what students are expected to know and are able to do, that is, what skills and knowledge they need to have at the end of a course and at the end of a program. The seven UG programs at JSSATE, Bengaluru are accredited by NBA since 2017 and the OBE is followed throughout the institute. The outcomes are defined for each course in all the programs and a system is in place to ensure that the outcomes are attained against the set targets. The target for each student is fixed as per the skill set</p>

	<p>of the students by designing the proper rubrics. Continuous improvement is taken care by modifying (enhancing) the target levels every period.</p>
<p>6. Distance education/online education:</p>	<p>Due to the Covid-2019 pandemic, online education in HEI are playing vital role in delivering technological contents viz., content beyond syllabus, webinars, MOOCs, NPTEL, Coursera etc., Blended mode of content delivery was adopted to implement NEP-2020. Along with offline classes, online classes are also conducted for the benefit of the students. Many of the value added courses conducted in blended mode provided the essential knowledge for the faculty and students. The affiliating University has made significant changes in its curriculum for UG/PG program for NEP-2020.</p>



## Extended Profile

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### 1 Program

#### 1.1

**Number of courses offered by the Institution across all programs during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
411	445	445	443	434
File Description		Document		
Institutional data prescribed format		<a href="#">View Document</a>		

#### 1.2

**Number of programs offered year-wise for last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	11	11	11	13

### 2 Students

#### 2.1

**Number of students year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
3154	3038	2864	2601	2513
File Description		Document		
Institutional data in prescribed format		<a href="#">View Document</a>		

#### 2.2

**Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
234	234	234	174	190

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

### 2.3

#### Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
655	641	630	630	567

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

## 3 Teachers

### 3.1

#### Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
169	173	162	161	160

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

### 3.2

#### Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
182	174	156	172	177

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

## 4 Institution

### 4.1

#### Total number of classrooms and seminar halls

**Response: 61**

**4.2**

**Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
636.93	803.15	958.85	1050.41	1435.66

**4.3**

**Number of Computers**

**Response: 750**



## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

##### Response:

The Institute is affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka. The rules, regulations and guidelines followed by the institution are governed by the affiliating University. All the academic activities of the Institute are meticulously planned and executed. Apart from the prescribed curriculum, the institution has planned ways and means to strengthen the teaching learning process. In addition to the traditional chalk and talk method, the institution has adopted innovative teaching methods such as flip classes, assignments, mini projects, workshops, seminars, industrial visits, collaborative learning, simulation, technical quiz, e-learning etc. to ensure the effective teaching learning process. G-suite and Google classrooms are effectively used for teaching, conducting internals, solving assignments, posting teaching material etc. Infrastructure requirement for all laboratories is provided and upgraded as per the curriculum of the university. The curriculum planning is structured keeping in mind the Outcome Based Education. The process followed to deliver the curriculum effectively in the institute is as follows,

- **Institute academic calendar:** It is prepared in the beginning of the semester in line with the academic calendar of the affiliating university (VTU). The institute academic calendar includes the starting and end date of a semester, orientation program dates, holiday's information and internal assessment tests, parents meeting, alumni meeting etc.
- **Department calendar of events:** Department calendar of events is prepared in line with the Institute's calendar of events. The department calendar of events reflects activities planned for the semester viz., seminars/workshops, technical talks, industrial visits, project presentation etc. in addition to the information furnished in institute academic calendar.
- **Subject allotment and time table:** Subjects are allotted to faculty well in advance so that faculty get sufficient preparation time. Subjects are allotted to faculty based on their expertise and experience. Time table is prepared before the commencement of the semester and the same is followed throughout the semester.
- **Lesson Plan:** Lesson plans are prepared by the faculty for the respective subject before the commencement of the semester. The lesson plan includes course objectives, pre-requisites, course outcomes (CO), course contents, references, etc. The lesson plan thus prepared is monitored by academic monitoring committee in the department.
- **Teaching Learning Process:** Faculty prepares course material at the beginning of the semester and the same is reviewed and approved by academic monitoring committee in the department. To bridge the gap between University curriculum and industry requirement, content beyond syllabus (CBS) are arranged to students through technical talks, workshops, conferences, industrial visits, mini projects etc. To increase the efficiency of teaching learning process, various pedagogical tools are used.
- **Assessment:** Continuous Internal Evaluation (CIE) is carried out through Internal Assessment (IA) tests and activities. Three IA tests and activities such as problem solving, quiz, assignments, mini projects, simulation, case studies etc. are conducted. Based on the academic performance, slow

learners and bright students are identified. Remedial classes are conducted for slow learners to improve their academic performance. Bright students are motivated to participate in co-curricular activities such as paper presentation, quiz, design competitions etc. The affiliating University conducts Semester End Examination (SEE).

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

### 1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

#### Response:

The institution always believes in effective time management.

**University calendar of events:** Affiliating university calendar of events indicates the commencement and end date of the semester, commencement and end dates of both practical and theory examinations, internships, field work and project work.

**Institute academic calendar:** It is prepared in the beginning of the semester in line with the academic calendar of the affiliating university (VTU).The institute academic calendar mentions the starting and ending date of the semester, orientation program dates, holidays information, internal assessment dates, parents meeting dates, alumni meeting dates etc.

**Department calendar of events:** Department calendar of events in line with the Institute calendar of events is prepared at the beginning of the semester. The department calendar of events reflects activities planned for the semester viz., technical talks, industrial visits, project presentation etc.

Advance dissemination of Calendar of Events will help the faculty members to prepare their lesson plans, laboratory manuals, course files etc. Students would also find it convenient to plan for the submission of assignments, prepare for Internal Assessments and have clarity about Internships, Project Work and about the Semester break.

Placement Cell will also be able to plan its activities based on the academic calendars. The calendar of events will also comprises of the Orientation program schedule for first year students. Time Table is planned in accordance with the Date of Commencement and Last Working day indicated in the Academic Calendar. All Programs of the Institution follow the dates specified in the Academic Calendar to schedule three Internal Assessment Tests which are essential components of Continuous Internal Evaluation (CIE). Program specific activities & Events are planned based on the slots provided in Academic calendar. Events /activities like expert talks, workshops, Developmental Programs, fests, Seminars and Conferences are conducted as per the academic calendar. COE also specifies the duration and dates during which Internships/Projects/field works should be undertaken by the students as per the University COE. The Academic Calendar facilitates in planning for implementation of events and activities oriented towards realization of the Vision, and Mission of the Institution.



The academic calendar is displayed on the notice boards of the departments and also in the institution website. Any changes in the academic calendar due to the unforeseen developments are communicated to the students. Since all the faculty members prepare lesson plans, topics to be handled, and ensure unit wise completion as per calendar of events, there is only a marginal deviation of the activities between planned and executed. For any such deviation, proper alternate arrangements are done which are also mentioned in the class log book. The Institution sticks to the academic calendar published by the University for Respective Courses which allows the teachers and the students to space out their teaching and learning assessments. In case of any unforeseen causes, personal reasons of the concerned teacher, understanding level of the students of a certain subject, etc. additional classes will be planned to cover the syllabus.

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

**1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years**

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

**Response:** B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View Document</a>

## 1.2 Academic Flexibility

**1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**Response:** 90.91

**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

**Response:** 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

### 1.2.2 Number of Add on /Certificate programs offered during the last five years

**Response:** 25

#### 1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
9	4	5	5	2

File Description	Document
List of Add on /Certificate programs	<a href="#">View Document</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

**Response:** 12.46

#### 1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
760	162	503	351	46

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### **1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum**

#### **Response:**

Our institute integrates cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum as follows.

**Addressing Gender related issues:** Male and female are given equal preference in all aspects such as Admission, Curricular, Co-curricular, Extra-curricular and Training & Placement activities. Responsibilities are assigned irrespective of the gender. This will help to show mutual respect, coordination and cooperation with opposite gender. The governing council of the institute has one female representative as the member. The institute has constituted a women cell which addresses complaints, if any, from the lady staff and girl students. The institution celebrates and organizes events on the occasion of women's day every year. The institute has separate rest rooms for lady staff and girl students in all buildings.

#### **Addressing Environment and Sustainability related issues:**

The institution has installed solar panels in the campus. Tube lights are replaced with LEDs to save energy. The institute has installed water recycling plant in the campus. Water recycling and Rain water harvesting are done to conserve water for environmental protection. Effective utilization of college buses for transportation and tree plantation are some of the initiatives to make the campus pollution free. Paperless office is practiced by sending announcements and circulars through e-mails. Also the campus is made plastic free.

#### **Addressing Human Values and Professional Ethics related issues:**

The Institution has a NSS unit under which social activities are conducted. In order to inculcate moral and social values, the institute has a socio welfare unit called "YODHA". Many programmes such as blood donation camps, Swachh Bharath Abhiyaan and other social awareness programmes are organized.

#### **Curriculum addressing Professional Ethics, Gender, Human Values, Environment and Sustainability:**

The curriculum consists of the subjects addressing the above issues effectively. The list of subjects addressing the above issues and their description is given below.

#### **Subjects addressing Professional Ethics, Gender, Human Values**

1. Constitution of India, Professional Ethics and Human Rights: The course enables students to know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles and duties of citizens.
2. Management & Entrepreneurship Development: It talks about Understanding of basic differences between management and administration and how it is done, understanding leadership qualities and how different types of leadership affect the morale of the employees in the organization.

3. Construction Management and Entrepreneurship: The course enables students to understand the concept of planning, scheduling, cost and quality control, safety during construction, organization and use of project information necessary for construction project. Inculcate Human values to grow as responsible human beings with proper Personality.
4. Workplace Ethics And Value Systems: The course educates students about ethical issues, problems and ethical practices at workplace, Corporate Governance, workplace privacy, discrimination, managing change at workplace through ethics.
5. Business Law and Policy
6. IHRM
7. Entrepreneurship

### Subjects addressing Environment and Sustainability

1. Engineering Chemistry
2. Environmental studies
3. Air Pollution and Control
4. Water Supply and Treatment Engineering
5. Solid Waste Management
6. Water Resource Management
7. Municipal and Industrial Waste Water Engineering
8. Environmental Engineering Laboratory

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View Document</a>

### 1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

**Response:** 6.55

#### 1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
38	33	33	19	19

File Description	Document
Programme / Curriculum/ Syllabus of the courses	<a href="#">View Document</a>
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

**Response:** 24.48

#### 1.3.3.1 Number of students undertaking project work/field work / internships

Response: 772

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni**

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

File Description	Document
Any additional information (Upload)	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback process of the Institution may be classified as follows: Options:**

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

**Response:** A. Feedback collected, analysed and action taken and feedback available on website

<b>File Description</b>	<b>Document</b>
Upload any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

NAAC

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average Enrolment percentage (Average of last five years)

**Response:** 71.25

##### 2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
537	702	770	576	573

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

2020-21	2019-20	2018-19	2017-18	2016-17
996	996	996	726	762

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

#### 2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)

**Response:** 66.76

##### 2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
214	134	175	104	96

File Description	Document
Average percentage of seats filled against seats reserved	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

### 2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

#### Response:

Students from diverse backgrounds are admitted henceforth to bring in unified culture among students, various events are conducted. Induction/orientation program is organized for first year students which covers the prerequisites of the courses, educate them on Professional Ethics in Engineering & Society, VTU Rules and Regulations, various cells in the institution like Anti-Ragging Cell, Women Grievance Cell and Internal Complaints Committee. Awareness about the activities in Cultural, Technical and Sports, Institution Industry-Institute Interactions and Alumni Interactions, Quality facilities in the Departments, Central Library and other facilities in the campus are deliberated.

**Identify the students' learning levels:** The initial informal interaction during the Induction Programme just after the entry into the institute, continuous evaluation helps the faculty to evaluate the learning level of the students and identify and distinguish the slow learners and advanced learners. In the first-year slow learners and advanced learners are identified based on the PUC percentage. Further, the advanced learners and slow learners are identified based on their overall performance of previous semesters, orientation towards academics, feedback from subject faculty. Mentees' learning ability is identified by the Mentors based on their academic performance, behavior, social and psychological features during the individual interaction session.

**Guidelines for identifying Advanced Learners & slow learners for First Year students:** Based on PUC examination score advanced & slow Learners are identified. In CSE, ECE, ISE departments greater than or equal to 70 percentage are considered as advanced learners, less than or equal to 50 percentage are considered as slow learners. Civil, Mechanical, IEM and EIE departments greater than or equal to 60 percentage are considered as advanced learners, less than or equal to 50 percentage are considered as slow learners. Departments, based on the input quality CET, COMEDK of their students, shall decide the threshold for identifying slow and advanced learning students. As soon as the results are declared by the university, the result analysis is made to understand the grades secured by the students.

**Guidelines for identifying Advanced Learners & slow learners for second, Third, final Year students:** In Civil, Mechanical, IEM and EIE departments, Slow learners are those students who score less than or equal to 50 percentage and or fail in more than one courses in the preceding examination, advanced learners are those students who score greater than or equal to 75 percentage of marks in the preceding examination. For CSE, ECE and ISE departments, advanced learners are those students who score greater than or equal to 80 percentage of marks in the preceding examination. Slow learners are those students who score less than equal to 50 percentage and or fail in more than one courses in the preceding examination.

The faculty coordinator or mentor in each department, in consultation with the Head of Department, shall prepare the list of slow and advanced learners and is course teachers of the present semester for the necessary action plans. Departments shall plan suitable motivating measures for advanced learners such as participation in intercollege co-curricular events, research paper publication, participation in professional society events, collaborative teaching-learning with slow learners, design-based experiments in



laboratories. Mentoring session is conducted with slow learners to find out the root causes of average,poor performance.

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

### 2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

**Response:** 18.66

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

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**Response:**

Teaching learning process is made “Learner centric” and Outcome-Based Education (OBE) practiced. Learner-Centric activities like participative learning, interactive sessions, student seminars, case studies, project work, assignments, problem-solving exercises, practical field work, quiz, and collaborative learning are part of the continuous teaching-learning process at the university. JSS Academy of Technical Education encourages faculty to practice pedagogical teaching methods. Department Advisory Board and Audit Committee support will help faculty to align their teaching learning process towards OBE.

#### **Course Delivery Methods:-**

**Collaborative learning:** The Institute encourages industry sponsored projects and research projects. Students are encouraged to participate in project exhibitions, Hackathon, technical fest, and symposium. The Competitive and team Spirit are developed through Group Discussions, Debates. Participating in intra college, state level and national level project competitions, design contests, Invited talks by experts from the industry and academia. Around 222 invited lectures have been organized by all the departments from the year 2016 till 2021. Around 90 Industrial visits have been organized by all the departments from the year 2016 till 2021. Around 450 collaborative learning methods have been practiced by all the departments from the year 2016 till 2021.

**Experiential learning:** Laboratory Learning is enriched by including additional experiments above the prescribed syllabus to strengthen experimental skills of students through Mini-Projects. Industrial visits are organized for the students to expose them to real-time industrial processes and the current practise . As per university rules final year students pursue internships as well industry-oriented projects.

**Active learning:** Institute has active professional society clubs under CSI, IEEE, ISTE and SAE chapters.

Students actively participate and organize technical events, workshops and seminars under Professional Society Activities. Active learning is executed through Student Seminars, Workshops, debugging and coding and also encouraged to present technical papers in National Level Technical symposiums. Around 205 activities have been organized under the professional bodies by all the departments from the year 2016 till 2021.

**Self-Learning:** The institute has a well-established Library facility that provides the latest books, journals, e-books, which the faculty members use to teach comprehensive and latest information to the students. Students are encouraged to take up E-learning platforms like NPTEL , SWAYAM, UDEMY & Coursera, etc.

**Open Educational Resources:** open-source tools, source code, materials, virtual lab and videos are used as additional resources for teaching and learning.

**Continuous Assessment Process:** The above-mentioned learning methods are assessed through time-bound assignments, presentations, seminars, mini projects, class-tests, quizzes that extend their learning activity beyond classrooms and are evaluated and assessed qualitatively and quantitatively.

**Final year Projects:** Final year Projects are mentored and monitored with well-defined rubrics framework to ensure quality of the projects. Students are encouraged to publish their project work in National/International conferences and in Journals.

**Internships:** Students are encouraged to take up internships right from second year and as well University has made it mandatory for final year students which provide an opportunity for students to get an insight on Industry practices and requirements. Around 1800 internships are taken up by students by all the departments from the year 2016 till 2021.

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

### 2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

#### Response:

The institute attempts to make the latest Information and Communication Technology (ICT) infrastructure available for use by students, faculty, and technical staff members in the campus. The faculty make use of the available ICT tools, apart from the traditional methods for the teaching learning process. The institute has dedicated classrooms with multimedia teaching aids like LCD projectors, internet-enabled computer systems. Faculty prepare powerpoint presentations and other materials to deliver the lectures to create the best learning environment for the students and also Google Platform is used by the faculty members for sharing learning materials. Group assignments like online quiz tests are conducted using Moodle and Google Forms.

Open Source and licensed software utilized by various departments are listed below:

Open-Source Software	License Software
MySQL, Jupyter	Keil
Wireshark	MATLAB
NS2	Xilinx 9.1i
PSPICE	CAPSturn, CAPsmill
SCILAB 5.5.2	Solid Edge V19, ST6
Multisim	ANSYS 11
TINA	MasterCamX4
AutoCAD2019	CATIA V5
IDLE	CADENCE
Micro-Cap	RED HAT LINUX Microwind
QGIS	STADD Pro V8i
Microsoft software (Campus agreement): Windows 7, 8.1 and 10 and Office 365 package Server CAL	Android SDK kit

The ongoing health crisis due to the Pandemic COVID-19 has put the entire system in jeopardy. However, the Technology has enabled our system to still function in spite of geographic constraints. The Lockdown has slowed down the process, but the Institute has encouraged the Teaching & Learning Process using suitable digital platforms for conducting classes to students viz. Zoom, WebEx, Google Hangouts, Google Meet, Microsoft Teams, Impartus and Google Classroom. Institute has cloud-based ERP automation system and streamlined the complete process which has improved the effectiveness of allocating and operating academic resources better.

The ERP suite comprises of

- Academics Automation module
- Administration Automation module
- Accreditation Readiness engine

Key features are listed below:

- Calendar of Events
- Class Timetable
- Lesson Plan
- CO-PO-PSO Mapping
- Content Beyond Syllabus
- Curriculum Gap
- Other Assessment
- Attendance
- Internal Assessment, Performance in SEE
- Student Enrolment details
- Students Mentoring details

**Outcomes of implementing ERP:**

- Admission Process
- Fee Payment Automation

- Centralized Data Management
- OBE process implementation and quantification
- Faculty and Student Management Process
- Real time reports
- Teacher, parent and student relations
- Access from Anywhere

**Learning Management System:** Students can avail the various e-tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation. The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using the resources from National Programme on Technology Enhanced Learning (NPTEL) to enhance the learning experience. Students are provided access to various online journals such as IEEE, Springer, Taylor and Francis and other online resources which help them for implementation of projects and to publish papers. Virtual labs of the NIT and IIT system are used for performing experiments. An anti-plagiarism software Turn-it-in is made available for faculty for their research work. The electronic resource packages like DELNET, NPTEL, Spoken Tutorial and Digital Library are available. The Campus is enabled with 24/7 Internet facility of 500 Mbps, with total of 951 computers. Facilitates wired connection and wireless access to staff and students within the Campus through multiple access points. Sophos XG 450 firewall for 1000 users is used for network security.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )

**Response:** 18.66

#### 2.3.3.1 Number of mentors

Response: 169

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<a href="#">View Document</a>
mentor/mentee ratio	<a href="#">View Document</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

**2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years****Response:** 96.03

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)****Response:** 35.48**2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
84	77	50	44	40

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)****Response:** 10.08**2.4.3.1 Total experience of full-time teachers****Response:** 1704

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

#### Response:

The institute formulates its academic calendar well in advance before the commencement of the semester in line with a University Academic Calendar. It includes specific dates for the conduct of Internal Assessments (IAs) for theory. The internal assessment process is communicated to the students by the respective faculty in the first week of the semester as well as during the orientation program for the first-year students. Until 2018, two IA tests were conducted as per the norms of the University. From 2019 onwards, as per University norms, Three IA for theory is conducted. The institute has prepared standard formats for preparing question papers which covers all Course Outcomes (COs) of the respective subject. Each Department constitutes IA question paper committee members to scrutinize the question paper and scheme of evaluation, checks the quality of question papers and coverage of the entire COs. The question papers are verified by the committee and Head of the Department for any discrepancies. The syllabus for the test is communicated to the students by the respective course teachers well in advance. Question papers are given to the internal test coordinator of the department on the day of the test. Internal test coordinators in turn distribute the question paper to room invigilators in the centralized system. Squad committees conduct surprise visits during internal assessment tests to curb the malpractice and misconduct.

The Mechanisms for Evaluation Systems based on OBE are

- Faculty follow Bloom's Taxonomy to compose questions on six levels namely, Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation.
- Questions are framed clearly that measure course outcomes and are uniformly distributed across the syllabi
- Rubrics are framed for Theory, Laboratory, Assignments, Seminars, Internships & Final year Projects.
- Evaluation is done by the faculty members with exchange of answer Sheets, the evaluated answer books are returned to the students and an opportunity is given to the students to discuss the evaluation with the teacher. If a student is not satisfied with the marks awarded after correction, Student may present the same to the HOD concerned.
- Components of continuous internal assessment include academic activities such as written tests, viva-voce, practical exercises, lab, quiz, assignments, open book test, field work, group discussion, seminar, record maintenance etc.
- The final IA marks of the students are entered into the university portal during the period notified by the university. The concerned subject teacher has to enter the IA marks and the same is to be approved by the Principal.
- All VTU Semester end examination question papers are delivered through a secure data transfer



system. Security codes are sent to Chief Superintendent, external deputy chief Superintendent and system operator by the University for downloading the Question paper. The question paper is downloaded only 30 minutes before the commencement of examination. As per VTU guidelines, the entire process strictly takes place in a strong room exclusively meant for the purpose.

By adopting the criteria as per University rules, transparency is maintained in the system of internal assessment. The examination system thus implemented in the Institute has transparency.

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

### 2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

#### Response:

Institute has a well-embodied grievance redressal cell wherein all issues related to evaluation at Institute level can be discussed. Online and in person students can submit their queries.

#### Process of Continuous Evaluation Examination (CIE ):

- The institute level CIE team shall release a notification, at least a week before of the scheduled CIE date, consisting of the timetable, examination hall information, and the details of room invigilators.
- Blue books shall be issued to the students by the stationery office of the institute at least a week before the CIE test date.
- The course teachers shall prepare the question papers according to the set format. The question papers are scrutinized by a committee and the HOD.
- The question papers shall be printed and photocopied by the respective course teachers and handed over in a sealed cover to the departmental coordinators who in turn shall distribute them to the invigilators on the test day, 15 minute before the commencement.
- The written blue books shall be collected by the department coordinators and shall be returned back to the respective course teachers for evaluation.
- The course teachers shall complete the evaluation of the blue books within one week of the completion of the CIE tests and the grades shall be uploaded to ERP and be informed to the students and their parents.
- Improvement CIE test shall be allowed to students as per the guidelines of the affiliating university.
- In case the student is not satisfied regarding evaluation or award of marks, after seeing the student can make an appeal to the HOD. After the opinion from the class advisor and program level coordinator, HOD takes the appropriate decision against grievances.
- Uploading of the CIE marks to the university portal shall be taken up by the designated course faculty members exercising utmost care. The HOD shall verify the marks entered and freeze the portal.

**Semester End Examinations (SEEs) and grievance redressal:** Semester end examinations are

conducted by the affiliating university as per the timetable published. This timetable is published by the university approximately 2 months prior to the commencement of examinations. The SEEs are conducted separately for Laboratory courses and theory courses.

As per the university procedure, the examinations are attended by our students at college premises. During Examinations the important issues like questions from out of syllabus, Missing data / improper data and the complexity in questions are to be communicated to BOE with proper documents for the award of marks. The malpractices issues are communicated to COE by the Chief Superintendent In-Charge with proper proof & report in sealed cover for necessary actions as per university norms. After results are published, the student is allowed to apply for revaluation in theory subjects by paying fee as prescribed to the University.

University provides an opportunity of revaluation for the students and is carried out by an examiner appointed by the university. Students who are interested to apply for revaluation may submit their applications at the examination branch, and follow the instructions given by University.

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

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.**

### Response:

Outcome Based Education is a student-centric teaching and learning methodology in which the course delivery assessment is planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e., outcomes at different levels. OBE involves framing cohesive Program Education Objectives (PEOs), Program Specific Outcomes (PSO), Program Outcomes (POs), Course Outcomes (COs), and ensuring assessment and attainment of these outcomes. POs and PSOs are synchronized with the Program Educational Objectives (PEOs), the Vision and Mission of the respective Department and the Institute. POs, PEOs and PSOs are displayed at prominent places including laboratories in all the Departments. They are displayed on the institute website, program wise. While addressing the students, the HODs create awareness on POs, PSOs and COs. The faculty members, class teachers, mentors, course coordinators, program/ISO coordinators also inform the students and create awareness and emphasize the need to attain the outcomes. In addition to this the course outcomes of all subjects are hosted in the respective department website; Lesson plan of a course contains the COs and each class is marked according to the COs. Course outcomes of laboratory courses are published in the respective laboratory and in the lab Manual/Student Lab record.

Program specific outcomes (PSOs) are the precise skill requirements and activities to be fulfilled by the students at micro level and by the end of the program. The programme coordinators prepare the PSOs, usually two to four in number, in consultation with course coordinators. The Head of the Department and subject experts of the individual departments will discuss the same and approve it after confirmation by the



Principal.

Program Outcomes (POs) are comprehensive statements that define the professional activities which the program aims at, and these are to be attained by the students by the time they complete the program. POs incorporate many areas of inter-related knowledge, skills and personality traits that are to be acquired by the students during their graduation.

Course outcomes (COs) are direct statements that define the essential and disciplinary knowledge, abilities that students should possess and the depth of learning that is expected upon completion of a course. They are clearly specified and communicated to students. The Course Outcomes are prepared by the course coordinator in consultation with concerned faculty members teaching the same course.

The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom Taxonomy. COs is mapped to the programme outcomes and programme specific outcomes. A set of program specific norms are used to provide quantitative measurement of how well the course outcomes are attained.

Course teachers map the COs to POs and PSOs with suitable weights like strongly correlated (3), moderately correlated (2) and slightly correlated (1). The formats are consolidated and the charts are prepared to establish the correlation between the course outcomes and Programme Outcomes as well as Program Specific Outcomes.

The COs are incorporated in the lesson plan and made available in the ERP portal ([https://jssgroup.dhi-edu.com/jssgroup\\_jssateb/](https://jssgroup.dhi-edu.com/jssgroup_jssateb/)) for which teachers and students have access

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

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

#### Response:

The course instructor prepares consolidated assessment of COs attained through CIE & SEE.

The Overall PO and PSO Attainment is calculated by considering two methods of assessment.

1. Direct assessment with weightage of 80 percent
2. Indirect assessment with weightage of 20 percent

#### Direct Assessment:

Evaluation is conducted throughout the semester.

***The Assessment for the data collection includes the following steps:***

a) Internal assessment for theory courses b) Assessment of Assignments c) Continuous evaluation process for laboratory courses d) SEE marks

- Internal assessment marks of evaluation are collected for each course.
- Target level of 60 percent is set for the internal assessment.
- SEE assessment marks of evaluation are collected for each course which are available from university results.

***Target level for SEE for each course of the program is set as follows :***

- Scheme of 2016 & 2017 : Average of 3 years of SEE results for each course.
- Scheme of 2018 & 2019 : Class average of SEE marks of each course.
- Average of mapping values of CO-PO and CO-PSO is tabulated as a mapping /relation matrix.

***Steps followed for PO and PSO attainment Calculations:***

- The mapping process of CO-PO, CO-PSO is carried out and tabulated in the form of a relational matrix with High-3, medium-2, low-1 correlation value.
- The PO and PSO attainment process are carried out using direct assessment and indirect assessment tools.
- In direct assessment, firstly the data collection process is carried out through three IA, assignments and Laboratory courses.
- In Indirect assessment, semester end examination (SEE) results and Course Exit Survey(CES) are collected.

**Target level setting:**

- For Scheme of 2017 : average of 3 years of SEE results for each course is considered.
- For Scheme of 2018 & 2019 : class average of SEE marks of each course is considered.

Overall CO Attainment level = 90 percent [ 50 percent CO attainment through IA + 50 percent of CO Attainment through SEE] + 10 percent of CES.

The various tools used for CO attainment calculations are:

- Internal Assessments
- Practical Records
- Other activities
- Internship
- Project Reviews
- Reports
- Course Exit Survey
- Semester End Examinations

**Indirect Assessment:**

- **Course End Survey:** The course end survey is conducted for courses taken by the students for that particular semester every semester before semester end examination.
- **Graduate Exit Survey:** It is for the outgoing students of the program which will be submitted by the students at the end of their program. The survey format consists of questions which will highlight the achievement of POs in the program.
- **Alumni Survey:** It is conducted once in a year through mail and an online portal. The target group comprises alumni from one year to five years after their graduation.

#### Attainment of POs and PSOs:

- **Direct POs & PSOs attainment:** Through overall CO attainment.
- **Indirect POs & PSOs attainment:** Program Exit Survey and Alumni survey are included for POS and PSOs attainment calculations.
- **Overall POs & PSOs attainment** = 80 percent of Direct POs & PSOs attainment + 20 percent of Indirect POs & PSOs attainment.

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

#### 2.6.3 Average pass percentage of Students during last five years

**Response:** 95.94

##### 2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
626	628	606	592	546

##### 2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
655	641	631	630	568

<b>File Description</b>	<b>Document</b>
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

<b>2.7.1 Online student satisfaction survey regarding teaching learning process</b>	
<b>Response: 3.73</b>	
<b>File Description</b>	<b>Document</b>
Upload database of all currently enrolled students (Data Template)	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 203.86

**3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
42.02	66.87	82.30	2.3	10.37

**File Description**

**Document**

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

**3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)**

**Response:** 37.28

**3.1.2.1 Number of teachers recognized as research guides**

**Response:** 63

**File Description**

**Document**

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

**3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years**

**Response:** 62.5

**3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	6	2	3

### 3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
8	8	8	8	8

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

#### Response:

The Institute has identified a senior faculty as Dean Research, to coordinate and encourage faculty/students to involve in innovative ideas and transfer of knowledge through college and department forum activities.

JSS Science and Technology Entrepreneur Park (JSSATE-STEP) was established in the year 1999 has implemented a number of skill development training programs and sponsored projects. Under aegis of STEP, JSS Centre for Start-up Innovation and Incubation was established in the year 2016. Following are the activities:

- Good number of Entrepreneurship Awareness Programs (EAP) was conducted.
- Seminars and workshops on Entrepreneurship, Startup, Innovation and Incubation.
- A program on Awareness of Micro & Small industries.
- An EAP sanctioned by NSTEDB/EDII-DST and cosponsored by KCTU, GOK was successfully conducted during March –April 2018.
- Signed up with M/s. Wadhvani foundation for establishing training for student startup cell.

- NSTEDB, Department of Science & Technology, Government of India, has sanctioned a sum of Rs.8,10,000/- for the conduction of activities EAP-03Nos, WEDP-1No., TEDP-1No. and FDP-1No. for the year 2019-20 under DST-NIMAT project.
- The Incubation space is of 1000 Sq. feet, 7 cabins, seating space of 4 seaters of 4 cabins and 6 seaters of 3 cabins. Facilities include - fully air-conditioned, Plug and play workstation, internet connectivity up to 300 Mbps, UPS Power line back, Access control facility, Meeting/discussion room for individual companies, and Conference hall with 220 seats.

The Institute encourages/supports students and faculty to innovate and create new ideas and transfer of knowledge. The following are the innovations:

- JSS Maha Vidya Peeta has earmarked Rupees 20 Lakhs for student projects / Research and Innovation activities under JSS Research foundation.
- JSS REEV Team: A Multi-disciplinary team consisting of Mechanical Engineering and Electronics & Communication Engineering was formed to design and fabricate a Hybrid Car and participated in REEV 18-20 (April 2018).
  - The car was unveiled at JSSATEB on 05/02/2020. The JSS REEV Team fabricated the Hybrid Car and participated in the REEV 2020 Finals event held at Meco Kartopia, Bangalore on 7th-8th of February 2020 and secured the first place and a cash prize of Rs.60,000/-.
  - Management of JSS Mahavidyapeetha, Mysuru sponsored an amount of Rs.10,00,000/- to the team. Other industries sponsored the innovation throughout the event.
  - JSSATE-Bangalore Team won the First Prize for Design of TVS Hybrid Mavericks (TVS Jupiter Scooter), in SAE India Competition held on 15th &16th June 2018 at M/s TVS Motor Company Ltd., Hosur. The College Sponsored Rs.1,70,000/- for the design & TVS Company Sponsored TVS Jupiter 110cc two wheeler.

Tachyon Motorsport a Student Racing team from JSSATEB designed and built a car prototype. Participated in Rally Car Design Challenge (RCDC) in Bikaner, Rajasthan held on 2nd-4th of October 2019 and won First place in Maneuverability, Static Event and Second place in CAE and Business Presentation. This team obtained sponsorship amount of Rs.5,17,876/- from various agencies.

The Intellectual Property Rights-IPR cell is setup at JSSATEB. Patents are awarded and several patents are filed and published in Patent Journal of India.

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

### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property

**Rights (IPR) and entrepreneurship during the last five years****Response:** 29**3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
11	4	2	6	6

File Description	Document
Report of the event	<a href="#">View Document</a>
List of workshops/seminars during last 5 years	<a href="#">View Document</a>

**3.3 Research Publications and Awards****3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years****Response:** 2.75**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 173

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

Response: 63

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years****Response:** 3.68**3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**



2020-21	2019-20	2018-19	2017-18	2016-17
177	135	136	79	81

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

**Response:** 1.73

#### 3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
74	55	62	48	46

File Description	Document
List books and chapters edited volumes/ books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.4 Extension Activities

### 3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

**Response:**

The Institute encourages students to actively participate in various events which enhances their holistic development.

JSSATEB student volunteers added one more feather in NSS chapter of JSSATEB, started “YODHA” in the year 2013. Students have demonstrated their social awareness skills and help the needy one.

Seed ball preparation, Seed ball plantation, Poster making competition and a Webinar on “Oxygen indoors

and outdoors” organized in collaboration with Green Earth life organization. Leadership camp, Vanamahotsava, Voters ID revision, Pan Card drive, Walk for the elderly organized in collaboration with RAMOSE and Bengaluru Traffic Police.

Blood Donation Camp is organized in collaboration with Lions club, Kidwai Memorial institute of Oncology and Victoria Hospital, Bangalore. Covid-19 Vaccination Awareness Campaign was organized by NSS Unit from 11th to 12th April, 2021. A webinar was organized on “**Benefits of Blood Donation**” on the occasion of World Blood Donor Day on 14th June 2021. A Webinar, "Gratitude towards Doctors" was organized on the occasion of National Doctors Day on 1st July 2021. **Covid Vaccination camps** are organized in association with BBMP on 16th April 2021, 21st, 28th and 30th June 2021 and 9th July 2021. Our volunteers worked as Covid warriors in association with Abhaya Foundation from May to September 2021. Health checkup camp organized in collaboration with SSNMC Hospital. Free Library establishment at Ramanagar. “**Blood stem cell donor**” drive is organized in collaboration with Datri blood stem cell donor registry, TICEL BIO PARK, to inculcate Socialization skills in students.

Swachhata Pakhwada, Swachh Vidarthi, Swachh Vidyalaya, Swachh Gruha were organized by AIKYA, Bengaluru. Swachh Bharath Abhiyan, “**Voice 101 Webinar**”, Walkathon on drug abuse, Flood relief drive, Cleanliness pledge. Constitution day, Sadbhavana Diwas, Communal Harmony Campaign Week, Good Governance Week and Azadi Ki Amrit Mahotsav are celebrated in the institution.

Under PM’s Swachhata Hi Seva, JSSATEB with the support from UBA conducted a campaign to spread awareness of cleanliness to the residents of the villages: Ramohalli, Bheemanakuppe, Challaghatta, Maragondanahalli and Bettanapalya, with the action ‘**Say No To Plastic**’ and ‘**Make India Single-Use-Plastic Free**’.

Gender sensitization programs have been conducted by the college internal complaints committee for boys and girls. Resource persons gave input to raise the level of awareness among students about gender related knowledge and discrimination.

To reduce the Technological barrier in rural areas, JSSATEB in association with Foundation for Advancement of Education and Research (FAER) provided training on “**Technology Barrier Reduction Program TBRP**” to 30 students of Government rural schools.

Sports and Cultural: Students are participating in University level sports competition, Inter-college events, and inter-departmental competitions. The Institution has been organizing VERVE, the Techno Cultural Fest since 2005. This fest is one of the top rated events amongst engineering colleges in Bengaluru region. Around 50 events are organized, which includes both technical and cultural. Students from different institutions take part in the competitions.

**Suttur Jatra Mahotsava:** Mass marriage, agricultural fair and exhibition, cultural fair and bhajan mela, health checkup camps are organized every year. Around 120 Faculty/Staff / student volunteers render their services during **Jatra**

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

### 3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

**Response: 0**

#### 3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

**Response: 45**

#### 3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
21	09	03	06	06

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

**Response:** 35.29

#### 3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2398	637	60	1881	127

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt or NGO etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 3.5 Collaboration

### 3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

**Response:** 1536

#### 3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
592	501	277	93	73

File Description	Document
e-copies of related Document	<a href="#">View Document</a>
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	<a href="#">View Document</a>

### 3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

**Response:** 52

#### 3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
20	2	16	5	9

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.**

**Response:**

The Institute has policies to create infrastructure with equipment and machinery as laboratory facilities as per the standards and norms of VTU for conducting its teaching-learning process. The Campus is located in a 21.17 acres of land surrounded by lush green plantations in the South-Western region of Bengaluru City. The Institute total built-up area is 35,572 Square Meter comprising Classrooms, Seminar halls, Drawing halls, Laboratories, Workshops, Staff Rooms and common room.

The Institute has well laid policy for developing the infrastructure. At the beginning of the academic year need assessment for replacement/up-gradation/addition of the existing infrastructure is carried out based on the suggestions from Heads of the departments, lab technicians and system administrator after reviewing course requirements, computer-student ratio, budget constraints, working condition of the existing equipment.

Particulars	Description	For existing intake		
		Numbers	Area (Square Meter)	
			Required	Available
Class Rooms	Spacious classroom with green board and projector. Internet facility and CCTV installed into three academic blocks	52	66	>66
Tutorial Rooms	Equipped with green board and projector. Internet facility and CCTV installed into three academic blocks	5	33	>66
Laboratories	Equipped apparatus with computing equipment and facilities. Equipment are calibrated and maintained in good working condition.	48	66	>66
Workshop	Equipped in all respects to conduct	1	200	220

	workshop activities.			
Seminar Halls	Seating capacity of more than 200 students with ICT facilities	4	132	>200
Computer Centre	Equipped with Computers	1	132	156
Drawing Hall	Equipped with drawing boards	1	132	202
Library	It is housed in two floors with a carpet area of more than 2100 Square Meter. It has a separate Periodical section, Reference Section, Audio/Visual room, etc. In addition, digital library facility is available for the students/faculty to access e-Learning resources	1	400	2100

### Computing equipment

Particulars	Available
Servers	3
Desktop computers	951
Laptops	10
Printers	48
Scanners	21
Firewall	1
Switches/Routers	45
Projectors	96
CCTV camera	257

**Sports:** The Institute has large playing area to support variety of games

**Internet:** To provides wireless Internet connections, Wi-Fi points are distributed in the three Academic Blocks provided by the RailTel and Infyonic as backup.

**Backup Power:** Generators and Uninterrupted Power Supply (UPS) systems are used in the Institute as a backup system when the original power source is interrupted.

**Canteen and Cafe:** Institute has a canteen and cafe for snacks with a variety of dishes available.

**Stationery:** To cater to the students needs, the Campus has a stationery store that also offers reprographic and printing facilities.

**Transportation:** Institute provides faculty and students with bus services as per the requirements of students and staff bus routes from specific locations are offered.

**Security:** Institute has a team of trained security personnel patrolling and guard the Campus 24X7 to ensure students, staff, and infrastructure safety. The Campus is under CCTV surveillance.

**Accommodation:** Institute has separate hostels for boys (capacity 453) and girls (capacity 315) with necessary facilities.

**ATM and Banking:** To facilitate students and faculty, the Institute has Union Bank of India extension counter with ATM and online banking facility.

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

#### 4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

##### Response:

The Institute has created infrastructural facilities for indoor and outdoor games to bring about all-round development for the students. Large playing fields with well-maintained Day-Night facilities to conduct matches support a wide variety of games and have dedicated spaces for Indoor and Outdoor sports. In addition, the Institute has a gymnasium and provision is made for yoga facility. The Institute teams have proved their excellence in various Inter and Intra-Institutional, University, National level competitions. The students have participated in intra-college tournaments and inter-college (University) levels. The sports department takes pride in successfully organizing VTU and inter-collegiate sports activities as per VTU Sports calendar. The Department has organized major events such as Bengaluru South Zone Cricket Tournament and many more Inter-collegiate, Inter-zone sports events. Karnataka State Cricket Association (KSCA), Bangalore, has been recognized as one of the best turf grounds in Karnataka. The Department and



KSCA conducted KSCA Division matches, Under 14,16, 19 Zonal Matches.

Institute has been giving equal importance to both academic and other activities. Institute strongly believes that both curricular, co-curricular, cultural activities, sports and games are equally important for the overall development of students. The Institute utilizes its resources to provide an environment to its students where they are encouraged to participate in different activities. Institution has created a Cultural platform; under this platform, the college organizes many technical and cultural activities throughout the year, including Techno-cultural fest.

**Cultural activities:** The Institute has 4 seminar halls to organize cultural, co-curricular and extra-curricular activities at Institute and Department level every academic year. The Institution has been organizing the annual techno-cultural fest "VERVE" in the open space spacious playground. This fest is one of the top-rated events amongst Engineering colleges in the Bengaluru region with numerous techno-cultural events conducted every year. Students from different institutions participate in competitions and the winners are felicitated. All the departments organize program-level techno-cultural activities in the seminar halls.

**Sports and games (indoor/outdoor):** The Institute has various sports facilities to meet the student's need for indoor and outdoor games to develop personalities and to practice for competition as per the norms. The Cricket ground is jointly managed by the Institute along with KSCA. The Institute has other playgrounds for Synthetic tennis, Football, Basketball, Volleyball, Handball and Throwball. The indoor sports complex accommodates Table Tennis, Chess and Carom board.

**Gymnasium:** The Institute has gym with a range of free weights and aerobic equipment in built-up area of 460 Square Meter with multi-tech gym, treadmill, exercise bikes, hack squat, cable cross over, flat & decline bench, upright bike, elliptical trainer, smith machine, bodybuilding equipment etc. The gym is great for building strength, burning fat, improving general fitness, or specific sports conditioning. The gym is open to all students and faculty members.

**Yoga:** The Institute conducts yoga periodically and provision is made both in the Boys and Girls Hostels. Yoga will raise awareness and ignite a passion for fitness among the students. Yoga is a mental, physical and spiritual practice that needs to be carried every day.

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

#### 4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

**Response:** 100

##### 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

**Response:** 61

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View Document</a>
Paste link for additional information	<a href="#">View Document</a>

#### 4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

**Response:** 21.34

##### 4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
10.39	153.02	112.32	316.81	633.71

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	<a href="#">View Document</a>
Upload audited utilization statements	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS)

**Response:**

- Name of ILMS software is LIBSOFT
- Nature of automation is Automatic
- Version: 12.0 web version
- Year of Automation is 2015

LIBSOFT is the ILMS software (version 12.0) is used in the Library since 2015 which is automated required for the acquisition management, catalog management, barcode management, search facility, online access, inventory management, subscription management, online public access catalog (OPAC) and project reports collections. All the library documents are bar-coded and books are issued to users by reading the barcode of the document. LIBSOFT is very versatile and is extensively used for the generating all the reports that are required in the day-to-day requirements. Library is housed on two floors with a carpet area of 2100 Square Meter and it has a separate Periodical section, Reference section, Audio/Visual

room, etc. In addition, the digital library center with computers is made available to the students to access online resources. It has a comprehensive collection of literature predominantly related to Engineering, management, and allied subjects to meet the users present and future information needs. The library facility is accessible to the students from 9.00 AM to 9.00 PM. E-journals and MOOC courses can be accessed anywhere in the Campus through Wi-Fi and LAN.

E-Resources can be accessed anywhere in the campus through Wi-Fi and LAN. The Infrastructure has a centralized Library with open access facility for students. There is also a book bank facility for needy students to borrow the books for the entire semester. Digital Library is established to access online database and online Journals. Air-conditioned Audio/Visual room is also setup for organizing seminars/workshops. Discussion rooms with a whiteboard facility is also provided. Photocopying/printout facilities are available; Departmental Libraries are also setup by all the departments. Institute is one among the few colleges to have an Information and Library Network (INFLIBNET) center that is web-based Research Information Management (RIM) service to facilitate the academic, R&D organisations and faculty members, scientists to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network.

The Library has membership with the VTU Consortia for online resources and NDL (National Digital Library), enabling access to many e-journals from renowned publishers. The Library has a collection of more than 40,000 documents and has subscription to important technical journals. It has access to many e-journals from renowned publishers viz., ASME, ASCE, IEEE, Springer Link, ProQuest, Science Direct, Taylor & Francis and Knimbus Digital Library platform, etc.

Infrastructure has a centralized library with open access facilities for students. There is book bank facility for needy students to borrow the books for the entire semester. The whole Library is computerized to facilitate smooth functioning. Digital Library is established to access online databases and online Journals. An air-conditioned Audio/Visual room is set up for seminars/workshops. Discussion rooms with a whiteboard facility are provided. Photocopying/printout facility is available. All the major departments have departmental libraries. The students are encouraged to enrich their knowledge through VTU e-Learning center by interacting with eminent scholars in an immersive e-learning environment.

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

#### 4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

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

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	<a href="#">View Document</a>

#### 4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

**Response:** 28.59

##### 4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
27.01	31.06	39.16	25.45	20.29

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year

**Response:** 18.42

##### 4.2.4.1 Number of teachers and students using library per day over last one year

Response: 612

File Description	Document
Details of library usage by teachers and students	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

#### Response:

The ICT Policy aims to provide updated IT facilities to all the stakeholders of the Institution. Provide communication facility to promote teaching and learning at the Institute by upgrading IT facilities at regular intervals to meet the changing requirements. The aim is to establish seamless connectivity with computing facilities among the stakeholders; ICT infrastructure is planned and designed.

Datacenter is the backbone for the management of the information technology resources of our Institution. It is situated in the campus main block and houses core switches, servers within an air-conditioned environment. It includes SOPHOS XG firewall and DHCP, Biometric Attendance Server, Wi-Fi Management Console and Network Video Recorder and Networked Attached Storage.

**Routers and Switches:** In order to network computers of all the Departments together on the Campus, one Brocade ICX 7450-24, which acts Router has been deployed on the Campus. It connects the college campus to the outside world through Gigabit Ethernet (GbE) access.

**Internet – Fiber optic networking cable:** Broadband Internet service is facilitated by 12 core Optical Fibre Cable. It is connected as a backbone network to provide a high-speed data connection across all the Blocks in the Campus.

**Intranet networking cable:** Initially, the Institution had equipped with Cat5 Ethernet cables for device connectivity within the Campus. Ethernet cables have been upgraded from Cat5 to Cat6 cables that render speed upto 10 Gbps to achieve improved connectivity due to the high-speed requirements.

**Wi-Fi Access Points:** To provides wireless Internet connections to various devices in Campus, 100 Indoor access points and 10 Outdoor access points are distributed in the Academic Blocks.

**Networking Bandwidth:** The available bandwidth is 500 Mbps. It facilitates wired connection and wireless access to staff and students within the Campus through multiple access points. By this 24/7 Internet facility is provided in college and hostel premises.

**Computers and Server:** All the Departments in the Campus, based on their requirement, have a sufficient total of 951 computers to cater to students and faculty's needs: a computer ratio of 4:1. An HPE DL380 Rack Server with a 4210R Intel Xeon scalable processor with 4\*32GB DIMMS and 2\*480 GB SSD is installed in the server room rack.

**Firewall and DHCP:** Sophos XG 450 firewall for 1000 users is used for network security to identify the sources of threat and prevent infection on the network by automatically limiting access to other network resources.

**Licensed Softwares:** All the Departments in the Campus, based on the requirement, have proprietary software for teaching, research work and management.

**Safety and Surveillance:** IP cameras are installed across the Campus for monitoring the happenings continually in the Campus and thereby keep security in place.

**Class Rooms and Seminar Halls:** All the classrooms and seminar halls are equipped with ICT facility. The faculty use multiple virtual platforms to teach via video conferencing applications.

**Support System:** To facilitate the uninterrupted working of IT resources, cater to needs such as installation, up-gradation and maintenance of the computer systems and other IT essentials, the Institution has well-qualified technical support staff.

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

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

**Response:** 4.21

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

#### 4.3.3 Bandwidth of internet connection in the Institution

**Response:** A. 750 MBPS

File Description	Document
Upload any additional Information	<a href="#">View Document</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

### 4.4 Maintenance of Campus Infrastructure

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

**Response:** 75.45

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



2020-21	2019-20	2018-19	2017-18	2016-17
599.53	619.07	807.37	708.15	781.65

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

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

##### Response:

The Institution is adopting a systematic procedure to maintain and utilizing physical, academic and support facilities. The procedure for each type of facility is briefed in detail as follows:

**Physical and support facilities:** Most of the facilities have AMC, including Lifts, Generators, Air conditioners, UPS systems, RO water systems, housekeeping services, security services, Gardening and landscaping services, Transportation services, Sewage treatment plant, etc.

For maintaining all these physical facilities, during the beginning of every financial year, maintenance engineer will submit a budget request to the Principal to allocate the required fund based on the past experience and actual expenses. Based on the request, the Principal will allocate the amount to meet the expenses of the Department. For maintaining some of the facilities like Lifts, UPS systems, RO water systems, housekeeping services, security services, gardening and landscaping services, sewage treatment plant, Transportation services, etc. Enquiry letters will be sent to the vendors by the maintenance engineer to identify the vendors required for the facilities. Sealed quotations are received for each facility independently. A committee headed by the Principal, which normally comprises of Maintenance Engineer, Administrative officer, Accounts officer and Senior faculty. They open the sealed quotations, review the rates and verify the vendors credentials, quality and comparison statement is prepared. Vendors will be called for negotiations with committee members to discuss in detail with each vendor separately about the quality of services, rates, duration of contract, taxes, terms and conditions, etc. Later the committee will discuss exhaustively and unanimously decide a vendor based on the above factors and the proposal with requirements and documents is submitted to the management for approval. After getting approval, the vendor will be informed to take up the responsibility of providing the services with the agreed amount and work order. Within a couple of weeks depending upon the urgency, an agreement will be made between Institution (First party) and the vendor (Second party) by signing on bond paper by mention of all the terms and conditions. Normally the contract will be for two or three years. Many a times, the contract will be renewed with the mutual agreement between both the parties depending upon the quality of services.

Some of the other physical facilities like Generators, Air conditioners, Plumbing, Carpenter works, etc. are looked after by maintenance section by hiring the technicians as and when the services are required. The maintenance section also looks after the canteen services, Cafe shops, Stationery shop, ATM, Fire extinguishers, etc.

The maintenance section is headed by a maintenance engineer, who looks after the overall supervision. Office Superintendent monitors and coordinates various activities with the help of technical staff and helpers. The technical staff executes tasks and monitors the work done by different vendors by periodic checking and ensuring the quality of work at all places with technical helpers' support. Maintenance of electrical, carpentry and plumbing works is done on the payroll, duly supervised by supervisors guided and monitored by the Maintenance Engineer. Major civil works such as plumbing work, mason work, painting work, structural changes, etc., will be attended by the maintenance section with the support of the Resident Engineer, Engineering section, JSSMVP, Bengaluru division.

**Laboratory maintenance:** There will be technical helper and Instructor to look after a each lab in addition to guide and help students during the conduction of lab experiments. The Instructor keeps all the apparatus and equipment in working conditions by regular maintenance. All the equipment will be calibrated with the support of the foreman and faculty in-charge of that particular lab. A request letter will be submitted to the Principal through HOD along with the diiferent quotations. After obtaining the approval letter, procuring order will be issued to the vendor. After servicing, testing, conditioning, etc. and calibrate the equipment and machinery in the labs, the lab in-charge will inspect the equipment along with HOD and pass the bill for releasing.

**Library maintenance:** Maintenance of the Library is done by upgrading the resources based on the Library committee inputs. The committee suggests improvements to run the Library smoothly, orderly and satisfactorily. Every Department prepares a required list of books as per curriculum requirement in a prescribed format after receiving requests from faculty and students and sends it to the Library for further process. The demand book list was received from students will be considered for budgetary provisions and approval of the booklist will be done. We have AMC for the Library automation software (LIBSOFT) and also for the UPS. Our central maintenance department maintains fire extinguishers, Electrical equipment (tubes and bulbs and other electrical failures).

**Sports complex maintenance:** The Physical Director takes care of the sports maintenance committee to maintain the sports equipment regularly. The logbook is maintained about the maintenance or repair required for sports equipment. Broken sports materials are disposed and materials needed for maintenance/repair are procured every year. Sports equipment and consumables, etc., are procured annually and very well maintained. The committee procures all types of sporting inventory as per requirements.

**Computer maintenance:** A System analyst is appointed to ensure the upkeep of all computers in the Campus. The system analyst maintains and monitors the IT infrastructure facilities on the Campus regularly. All the computers in the Institute are connected with Internet facility. The trouble/problems experienced by the computers in the various laboratories are entered in the complaint register by the lab instructors. The system analyst will then go to the respective labs for identification of the problems and resolve the same at the respective places.

**Classrooms:** Academic facilities include desks, podium, Black boards, Notice boards, Computer chairs in the laboratory, Projectors, etc. required essentially for the conduction of classes and labs. Head of the



Departments submit request to allocate funds to meet academic facilities expenses in every financial year. Depending upon the necessity of the items mentioned above, Head of the Department submits the request letter to repair or replace the above items or procure new items. After getting written consent from the Principal, HOD will initiate repair/service or purchase the items.

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



## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 30.82

##### 5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
999	1099	908	769	628

#### File Description

#### Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

#### 5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0.81

##### 5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
44	35	24	10	7

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View Document</a>

### 5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

**Response:** B. 3 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

### 5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

**Response:** 20.27

#### 5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
735	393	423	799	493

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

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

**Response:** C. 2 of the above

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 49.44

#### 5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
285	277	346	324	307

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years (Data Template)	<a href="#">View Document</a>

### 5.2.2 Average percentage of students progressing to higher education during the last five years

**Response:** 43.66

**5.2.2.1 Number of outgoing student progression to higher education during last five years**

Response: 286

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education (Data Template)	<a href="#">View Document</a>

**5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

Response: 99.2

**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	17	24	27

**5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	17	25	27

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	<a href="#">View Document</a>

**5.3 Student Participation and Activities****5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural**

**activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

**Response:** 70

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

2020-21	2019-20	2018-19	2017-18	2016-17
01	02	49	9	9

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)**

**Response:**

Institute has an objective of inculcating the qualities of leadership, organization, and responsibility in the students. It has active Student Council with a strong representation of students in the academic and administrative committees. The Institutional Quality Assurance Cell (IQAC) is constituted under the chairmanship of the Principal with Dean Academics and Dean Student welfare and a few faculty members. Students are the members of Institutional IQAC. Overall control and monitoring of Institutional IQAC is through Quality Assurance and Enhancement (QAE) for the effectiveness of the overall processes and systems. The Class Representative (CR) system is fundamental to student representation as leaders. It ensures the system's efficiency and effectiveness in putting forward the interests and views of the students. Office of Dean Student's welfare monitors the functioning and effectiveness of the class representative system. The institution offers and supports numerous Student Forums/Clubs to provide opportunity to students to participate in wide range of Co-Curricular, Extra-Curricular, Social and Community development activities. JSS Academy of Technical education, Bangalore has many cultural teams namely The Drama team, The Dance team (Eastern and Western), The Music team and The Fashion team. JSSATEB equally supports and encourages all the teams with attendance. JSSATEB has various technical clubs in all the departments to allow students to participate in many technical events. Every year, JSS Academy of Technical education, Bangalore organizes a techno-cultural fest named "VERVE" which helps the students to explore their management and organizational skills.

The VERVE Core Committee made the fest a big hit every year. JSSATEB education also has another team, THE TACHYON SPORT, a team which allows students (automotive enthusiasts) to learn, design, fabricate, optimize and race. The management supports the team with all the essential requirements and motivates them to participate in many national events. As a part of the Society it is important to take care of it and help in the betterment of it. The institute has a social service club YODHA, the team which serves the society to make it a better place. The Yodha team conducts events such as Blood donation camps, seed ball plantation, walkathons, Book Baro Andolan, helping the poor, spreading awareness about many social issues. Student activities carried out during the AY 2021-22: Techno cultural fest - VERVE'21 organized in the college from 9th to 11th July 2021 in online mode. The program was inaugurated on 9th July 2019 at 10 AM. The dias of verve'21 cultural fest was blessed by guests Sri.Ravi D Channannavar, Dr. C G Betsurmath, Dr. Nagathihalli Chandrashekhar and Dr. H R Mahadevaswamy joint director. The inauguration program has begun with the tradition of seeking the divine blessings through an invocation by Dhvani - Music team of the institution. Student funded projects: 15 student projects received funding from KSCST and 5 student projects received funding from VTU in 2020-21. DHWANI MUSIC BAND now performing in DD Chandana TV under the program - Mareyada Manikhya-Kalakusumagalu. In view of COVID 2019 PANDAMIC more activities could not be conducted.

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

### 5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

**Response:** 22.4

#### 5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
13	16	35	33	15

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	<a href="#">View Document</a>

## 5.4 Alumni Engagement

### 5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

#### Response:

JSS Academy of Technical Education, Bengaluru Alumni Association is a formally registered body. It is registered on 3rd July 2021. It has more than 9500 graduates (1997-98 to 2020-21).

The Association aims to link the Alumni to the institution, develop synergistic plans to support the institution and achieve its vision, and to enable the institute to add value to all its stakeholders. JSSATEB invites Alumni to conduct Seminars/Technical Talk, Conference and workshops. Alumni are involved in the department Advisory Board, college events like “VERVE” cultural fest, Conferences, Workshops and department level technical symposia etc. The guest lectures by Alumni pave the way for interaction to further improve in Teaching Learning Process (TLP), effective implementation of the OBE Process, placement and internship opportunity.

JSSATE Bengaluru Alumni meet is celebrated with a mixture of cultural events and talks by Alumni, students and faculty. The institution has shaped Entrepreneurs, Engineers and Managers who collectively have a wealth of knowledge and experience. This collective excellence is our contribution to the growing generation, the institute and the society as a whole. “Engage, energize and enhance” keeping this motto in mind, Alumni association seamlessly connect with the institute, faculty, students and fellow Alumni.

On 20th May 2017, Alumni day was celebrated at the institute. This was an all-day meet creating an opportunity for Alumni, current students and faculty to interact and bond. This day was celebrated with a mixture of cultural events and talks by Alumni, students and faculty. Discussions were made on industry trends, opportunities and initiatives to develop the institution.

In the academic year 2015-16, the department of ECE conducted Alumni meet on 5th Dec. 2015. Vision and Mission of the department were explained to the Alumni and took feedback on the same. Alumni interactions were done for the improvement of education/infrastructure quality and growth of the department and institution. In total 53 Alumni were present in the meet.

In the academic year 2016-17, an Alumni meet was held by ECE department on 20th May at JSSATEB. Alumni feedback on Vision, Mission, PEO's, PSO's and PO's was taken from the Alumni. Questionnaires were prepared to gather information based on their experience to improve academic activity at JSSATEB.

In the academic year, 2018-19, an Alumni meet was held on 11th May in the department of ECE, JSSATEB. In total 20 Alumni were attended the meet and gave their valuable feedback and suggestions for the betterment of the institute and the department. The faculty members discussed various academic programs and activities with the Alumni.

In the academic year 2020-21, inaugural function of Alumni Association was held on 3rd July 2021. Shri N.Manjunath Prasad, Principal Secretary, Revenue & Disaster Management, Government of Karnataka, inaugurated the registered Alumni Association.



Around 15 distinguished Alumni were present and shared their memories and experience at JSSATEB. The Alumni have organized more than 60 webinars/seminars/events (Offline/Online mode). An Alumni set up Mobile App Development Lab in the Department of ISE and another Alumni contributed furniture and bookracks to Civil Engineering department library.

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

#### 5.4.2 Alumni contribution during the last five years (INR in lakhs)

**Response:** B. 4 Lakhs - 5 Lakhs

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

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

##### Response:

##### VISION

To be among the finest Institutions providing Engineering and Management Education empowered with research, innovation and entrepreneurship.

##### MISSION

- Strive towards Excellence in teaching–learning process and nurture personality development.
- Encourage Research, Innovation & Entrepreneurship.
- Train to uphold highest ethical standards in all activities.

The Institute is governed by the Chairman, His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji, Jagadguru Sri Shivarathreeswara Mahavidyapeetha (JSSMVP), Mysuru. The vision of JSSMVP is to bring an excellent blend of traditional culture with modern science, leading to the total personality development of Individuals.

The Vision and mission is formulated based on the input received from the students, parents, industry representatives, staff, academicians and management and approved by the management on 07/08/2016 and in the Governing Council on 30/11/2016. Vision and Mission of the Institute is displayed in the prominent places.

The mission of the institute statement expresses the Institute's distinctive characteristics in terms of addressing the needs of the students, industry and society and to realize the vision. The formal and informal arrangements in the institute to co-ordinate the academic and administrative planning and implementation reflects the institutions efforts in achieving its vision.

##### Reflection of Mission and Vision in the leadership of institute in ensuring:

1. **The policy statements and action plans:** Periodic Governing Council meetings held for ensuring that the policy statements and action plans are aligned for attaining the mission of institute, disseminates the vision and mission to stake holders. The Principal makes action plans in consultation with faculty members.
2. **Formulation of action plans:** The action plans are formulated in line with quality policy under the leadership of the Principal and the same are incorporated into strategic plans for effective implementation.
3. **Interaction with stakeholders:** The Principal ensure that all stakeholders are called and involved in the interactive sessions. Viz., Parent teacher, faculty, student, industry representative and Alumni meeting.
4. **Champion organizational change:** During the span of time institute has adopted many changes to

attain its vision and mission. Viz., increase in infrastructure facility, creation of Deans, rotation of HoDs, formation of various committees.

5. **Prospective Plan:** The prospective plan for five years of the includes accreditation, research centre and recognition through participating in NIRF ranking, publications, research grants, Industry collaboration, motivating students for higher studies and student placement.

6. **Participation of the teachers:** Through participative management, the faculties are involved in various decision making bodies of the institute.

7. **Reinforcing Culture of Excellence:** To ensure reinforcement culture of excellence to meet the vision, mission, institute has achieved following milestones. Such as: -

- NBA Accreditation of programs: All the UG programs are accredited by National Board Accreditation under Tier-II category valid upto 30th June, 2023.
- NIRF Ranking: The institute is participating regularly in National Institutional Ranking Framework (NIRF) ranking since 2016. The institution was placed between 150-200 band (2017 & 2018) and between 251-300 band (2020).
- QS-IGAUGE: The institute obtained the Gold QS-IGAUGE certification in 2020.
- ARIIA: Participated in ARIIA Ranking 2021 and recognised in the band "PERFORMER".
- Times Engineering ranking 2021-Institution placed 62nd place.

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

### 6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

#### Response:

The Institute promotes participative management. Ideas pertaining to academic goals, organizational progression and better campus life are collected from all stakeholders to promote efficient functioning of the Institute.

The Principal ensures the delivery of quality education that foster the holistic development. The relevant information is shared through meetings and circulars.

Budget provisions for the departments are made based on the requirements/inputs provided by the HoDs. The Institution also publishes audited financial statements every year.

Various committees are assisting Principal to review, monitor, control and participation in the decision Making process for the holistic development of the Institute.

Dean (Academic), Dean (Student welfare) and Dean (Research) assist the Principal in administration. Senior faculty members are heads of various Academic/Administrative committees. Academic/financial power is delegated to the Heads of the Departments. Suggestions from all stakeholders are given prominence for the overall improvement in the effectiveness and efficiency of all institutional processes. Effective and participative decision-making process is adopted in building effective culture in the

organization. This lead to achieve the vision, mission and the goals of the Institution.

List of Committees assisting Principal are:

- Academic Audit Cell
- Research & Development Cell
- Library Committee
- Career Guidance Cell
- Grievance/Grievance Redressal Committee
- Anti Ragging Committee
- Antisexual harassment Committee/ College Internal complaints committee (CICC)
- Eco Club
- Student Welfare Committee
- Hostel Committee
- Sports Committee
- Staff Welfare Committee
- Alumni Cell
- Ombudsman Cell
- Canteen Committee
- Admission Committee
- Examination Committee
- IQAC Committee

At the department level, decisions are taken by various department level Committees. As part of the Departmental Advisory Board (DAB), the faculty provides their inputs on all academic matters.

The Principal periodically convenes meetings with the HoDs, where ideas gathered from faculty members are exchanged and decisions are made to improve the academic performance of the students.

**Case study:** Budget preparation is taken in the month of October every year & submitted to Principal for further Processing and information will be sent to Director, Technical Education Division (TED) for input if any. The institute receive the approval in the last week of March. The process involves following steps.

- Heads of the Department receive circular from the Principal for requirement of the budget in the forthcoming financial year in their section.
- HoD circulate the circular among the staff member for their requirements in the laboratory/section (recurring and non-recurring items).
- Staff member submit their requirements.
- HoD discuss with the concerned staff member for their requirements and consolidate the details. The budget requirement will be forwarded to Principal.
- Principal further discuss and scrutinizes the requirements.
- Principal issues the approval letter to HoD for further process.

### **Delegation of Financial Powers**

- Budget is allotted for programs organized at the institutional and departmental level. Any programme to be organized is discussed with the Principal with the approval funds are sanctioned to conduct the programmes.

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

## 6.2 Strategy Development and Deployment

### 6.2.1 The institutional Strategic / Perspective plan is effectively deployed

#### Response:

The strategic plan is developed with an aim to achieve excellence by optimum utilization of resources. The Management conducts regular review of compliance to strategic plan (both Long Term Goals and Short Term Goals).

The Institution has various perspective plans for the holistic development of the students.

- **Aiming for recognitions for academic excellence and Global level, namely Accreditation Board of Engineering and Technology (ABET):** As a result of this Institute has obtained NBA accreditation for two cycles (2017-2020 and 2020-2023), participated in NIRF, QS IGAUGE, Atal Ranking of Institutions on Innovation Achievements (ARIIA ) raking and preparation towards NAAC accreditations.
- **Strengthening Industry-Institute Relationship:** Every department in the Institute has MoUs with the Industry for guest lectures, internship and students projects.
- **Strengthening the Programs by practicing the outcome-based education (OBE) :** The programs in the Institute is student centric to make them industry ready professionals
- **Upgrade the quality of Faculty through FDPs:** Staff members are encouraged to attend the FDPs, conferences, seminars/workshop to improve and inculcate the recent developments in the field of engineering & technology.
- **Enhancing the R&D activities and creating Centres of Excellence:** Faculty are encouraged to pursue Ph.D, Post Doctoral program in premier Institutes. Further, faculty are also encouraged to develop research culture in the Institute through publications, project proposal for funding and consultancy.
- **Developing the Innovation and the Entrepreneurial Skills of students:** Institute regularly organizes innovative project exhibition, entrepreneurial awareness program and patent filling.
- **Improving the Placements and Infrastructure:** Placement drives are aranged frequently.

#### Case Study: To enhance Faculty strength with Ph.D. Qualification at All Levels

Strategic management is a continuous process to focus on long term and short term objectives of the Institution. The Institute has good student population among engineering colleges in the state. It aims to conceptualize learning outcomes in more comprehensive terms and desire that its Graduates possess distinguished academic and personal abilities. The management is of the opinion that quality of faculty and diversified educational system has an important role to play in an institution to reach its full potential. To have a strong knowledge with impact on Research and pedagogy, the management aims to have more number of faculty with PhD Qualification at all levels.

In this regard, the management has introduced several Initiatives for enthuse a faculty to pursue Doctoral Degree viz., Study leave with full salary for the faculty pursuing PhD, Research and Development and students to take up research endeavors, Continuous augmentation of labs with state of art facility and softwares.

As a result of this initiative, there has been considerable increase in the number of faculty with PhD Degree during the assessment period. From 2015 to 2021, the number of faculty with PhDs is increased. In chronological order, the numbers are 48, 51, 63, 75, and 78 out of 168, 162, 162,171 and 161 respectively showing an increase in percentage from 26.58 to 48.44 in 5 years.

The institution aims to have 100% of faculty with Doctoral Degree qualifications in the next five years.

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

### 6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

#### Response:

JSS Academy of Technical Education, Bangalore has many statutory and non-statutory bodies carrying out functions and responsibilities in pursuit of Institutional mission and core values.

**Governing Council:** The administration is overseen by the Governing Council which meets regularly. Governing Council(GC) formulate the academic aim's and objective of the institution and guide toward the achievement of the same. Governing Council provide the approval for strategic plan, academic matters and new budget.

**Academic & Administrative Committees:**The institution has in place several Committees in addition to statutory committees to continuously monitor the academic and administrative activities. The committees comprise of key stakeholders.

**Finance Section:**The finance section prepares the budget in consultation with Principal and all section heads/HoDs. After the review, the management approval is obtained.

**Principal:** Principal is the overall in-charge of the various divisions of the Institute viz. Establishment, Accounts, General administration, admission process, preparation of budget, academic process etc,. He is also the Chairman of the Hostel Committee, Finance Committee, Convener of Purchase Committee and Recruitment Committee etc. He is the implementing authority of all the policy decisions of the Management and Governing Council.

**Dean (Academic):** Responsible for supervising, evaluating and supporting all department in a manner that

promotes academic excellence in institution. He/She look after various strategies to ensure adherence to the ordinances as approved by JSS Mahavidyapetha, Mysore, UGC, AICTE and Visvesvaraya Technological University, Belgaum. Dean Academic also assist Principal for academic matters.

**Dean (Research):** Responsible for bringing together the experts from industries, R&D organizations and the faculty of the institute to help in the promotion, coordination and facilitation of collaborative sponsored research projects, industrial consultancy and other R&D activities. He/She maintain details of research publication, research scholars, research centre, student's innovative projects, establishing and monitoring IPR cell. He/She assist Principal for promoting research culture in the Institute.

**Dean (Students Welfare):** Responsible to maintain ragging free campus, ensure discipline in and around the Institute, coordinate merit cum means and other scholarships, alumni affairs, sports monitoring and attends to all student related problems and resolves the grievances of students as and when they arise.

**Heads of Departments:** HoDs are the overall in-charge of academic and administration of their respective department. Heads of Department assist Principal for implementation of various activities in their section. Course teacher, mentor, Head of the Department are taking care of student issues related to the course.

**Recruitment Procedure:** The recruitment of faculty / staff is a crucial activity. The recruitment committee is constituted specifically for governing the recruitment procedure. Institute recruits faculty based on the requirement of the department.

**Promotional Policy:** The eligible faculty members are given promotion as per the AICTE rules and recommendations of screening committee constituted for the same. The screening committee constitutes Principal, external expert, Head of the Department, Administrative officer and management representative. The promotions for non-teaching staff are given based on the management rules in line with the Karnataka state service rules (KCSR). The Principal and HoD continuously encourages staff training, updating of qualification, research endeavours etc.

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Link to Organogram of the Institution webpage	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

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



File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
ERP (Enterprise Resource Planning) Document	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation, Administration etc	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

#### Response:

The Institute provide effective welfare measures for teaching and non-teaching staff to ensure employee well-being. Some of the measures established in the Institute for teaching and non-teaching staff are listed below:-

- **Employee provident fund (EPF):** All eligible employees as per the statute are provided with a contribution of 12% of the basic salary from the management.
- **Gratuity benefit to staff:** The staff completed five years of service in the Institution are provided with gratuity benefit as per the Government rules.
- **Group Insurance Scheme (GIS):** Management circulate the circular for Group Insurance Scheme every year in the month of November. The interested faculty enrol for the same with the monthly premium. This Scheme covers employee, spouse, their children and father & mother.
- **Group Accident Insurance Policy:** Institute provide the group accidental policy for the entire student and nominal amount will be included in the yearly fee. The staff are covered at free of cost.
- **Maternity leave:** A woman employee is entitled to avail 135 days paid maternity leave. The staff comes under ESI scheme entitled to avail 180 days maternity leave. Since 2016-17 (last five year), total 17 woman employees are benefited.
- **Higher Education:** The faculty are deputed for Ph.D. to reputed Institute / Universities with a condition that after returning to work for 3 years. Since 2016-17, six faculty members have availed the benefit.
- **Encouragement for higher studies:** Institute encourages the employee to upgrade their qualification and skills. Four non-teaching staff enrolled/completed BE, one M.Tech, 10 non-teaching staff have completed Diploma in their respective domain.
- **Faculty members are granted official on Duty (OOD)** and encouraged to participate FDPs, Conference, Seminars and other value added programs. The institute sponsors faculty to participate in events outside the institution with financial assistance.
- **Promotion:** Based on the requirements and fulfilling the regulation laid down by the AICTE, Government of Karnataka and JSS Mahavidyapetha eligible staff members are promoted. From 2016-17, three associate professors are elevated to professor, six assistant professors are promoted to associate professor. Three office staff are promoted as superintendent, eight helpers are promoted as instructor, one foreman promoted to assistant professor, one programmer is promoted as system analyst.
- **Casual leave (CL):** Regular employees are provided CL of 15 days and 2 days restricted holidays per year subject to approval from the section head. During the probationary period one CL per



month will be given.

- **Earned Leave (EL):** The EL facility for 30 days per year availed by the staff subject to approval from the section head/Principal/Management. The EL can be accumulated up to 180 days.
- **Special casual leaves (SCL):** Staff are provided with the SCL to attend University assignments such as Board of Studies meeting, Board of examiner meeting, valuation work, squad for University examination and deputy chief superintendent for University examination.
- **Transport facilities** for students, teaching and non-teaching staff is provided with the subsidised rate.
- **Provision for payment of annual fees** in instalments for students is made on case to case basis.

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

### 6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

**Response:** 31.04

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

2020-21	2019-20	2018-19	2017-18	2016-17
4	12	85	83	67

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 8.4

#### 6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
17	10	3	8	4

File Description	Document
Upload any additional information	<a href="#">View Document</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	<a href="#">View Document</a>

#### 6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).

Response: 48.27

##### 6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
96	114	60	65	66

File Description	Document
Upload any additional information	<a href="#">View Document</a>
IQAC report summary	<a href="#">View Document</a>
Details of teachers attending professional development programmes during the last five years	<a href="#">View Document</a>

#### 6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

JSS Academy of Technical Education, Bangalore follows the All India Council for Technical Education (AICTE), Government of Karnataka and JSS Mahavidyapetha regulations on minimum qualifications for appointment of teachers and other academic staff in the Institute and measures for the maintenance of standards in Higher Education together with all amendments made therein from time to time, for its teaching and non-teaching staff. The performance of each employee is assessed annually after completion of one year of service. The objective is not only to evaluate the performance as per established norms, but also to identify potential aspects for improvement that can eventually lead to further progress and growth of the employee.

The salient features of the performance appraisal system are as follows:

**Teaching Staff:**

The performance of each faculty member is assessed according to the annual self-assessment for the performance based appraisal system at three levels

- Self-assessment by the faculty
- Review by HoD and
- Final evaluation of decision by screening committee.

The appraisal form contains general information, academic background, qualifications up gradation, workshops attended during the year, teaching –learning and evaluation related activities, Co-curricular & extracurricular activities, research & publications, number of academic & research projects carried out and other academic contributions. The weightage for professor and associate professor is given for research guidance is 5, publication: 10, Conference/Seminar: 5, projects/consultancy: 5 and Massive Open Online Course (MOOC)/ National Program on Technology Enhanced Learning (NPTEL)/COURSERA: 5 of total 30 points evaluation. The evaluation for assistant professor is Student feedback:5, MOOC/NPTEL/COURSERA: 5, Ph.D registration:5, publication:5, Conference/Seminar: 5 points. Individual staff are filled and submitted to their respective Head of Department. This appraisal form is verified and reviewed by the Head of Department followed by a review by the committee comprising of Director, Principal, Dean (Academics), Dean (Research), Administrative officer and respective Head of Department. Promotion to the higher cadre will be based on the availability of the position and the performance of the teaching staff as per the regulation followed by committee recommendations.

**Non-Teaching staff:**

All non-teaching staff are also assessed through annual performance appraisal and annual confidential reports. The various parameters for staff members are assessed under different categories i.e. discipline, consistence in regular duties, willingness, taking responsibility, leadership ability, quality of work, upgradation of qualification and skills.

The comprehensive annual confidential report comprises of 4 divisions such as i). Personal details (8 parameters to be filled by the staff), ii). Immediate superior report (9 parameters assessed by superior), iii). Review committee report (for acceptance/rejection) and iv). Communications record details with the staff for nonacceptable report. Each parameter is graded on 1 to 4 scale i.e., Excellent, Good, Average and Poor. The Annual confidential report will be further approved by the administrative officer and Principal and send to the management for approval.

The performance appraisal system and annual confidential report has significantly helped in the evaluation of the performance of employees, in motivating them, analysing their strengths and weaknesses and ensuring better performance.

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

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

A mechanism is established in the Institute to conduct internal and external audit to ensure the proper usage of financial transaction. This audit ascertain integrity, accuracy, consistency, transparency and compliance of the institute financial related transactions.

**Internal Audit:** The internal audit committee constituted by the management conducts internal audit regularly. In the process of auditing, the committee checks expenditure details, vouchers, fee collections and all financial related documents. Internal audit committee ascertain the statutory compliance deductions such as Income Tax, Tax deduction at Source (TDS), Provident Fund (PF), Insurance, Professional Tax (PT) and Goods and Service Tax (GST).

**Settlement of Audit Objections:** The audit committee gives a detailed report including discrepancies are observed in the financial transaction such as bills, vouchers and other financial documents submitted by the internal stake holders. The report along with the objections, if any, are submit to the principal. Principal ensure the required rectification and resubmission of the documents or clarification along with the respective internal stake holders and approval, if necessary.

**External Audit:** As per the Government mandate, annual external audits are conducted regularly once in a year right from the inception. A registered Chartered Accountant Mr. T.P.Shivaprasad and his team conducts the audit.

If any clarification required or objections are raised by the audit team on account of payment, account receivable, stock mismatches etc, are corrected as per the requirement and resubmitted. External audit team prepares and submits the audit report to the Principal. This audited reports being presented by the Principal to the Governing council members for approval. After approval of the audit report submit to commissioning authority.

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

### 6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

**Response:** 18.29

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1.46	7.11	1.83	4.32	3.57

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual statements of accounts	<a href="#">View Document</a>

### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Response:

Institute mobilize the funds in several ways.

**Student Fee:** The primary source of income is through collection of fees from students as per the direction of Government of Karnataka for various courses.

**Others sources** of funds are, grants from Government and nongovernment organizations, philanthropies, consultancy rendered to Industry. and alumni.

**Alumni:** Alumni of our Institute are registered for alumni association with the alumni fee. The donation of the funds/equipment's will be received and utilised for the intended purpose.

**Facility:** The Institute also mobilize the funds through Institute facility such as computers/class rooms for various examinations conduct by Government & Non-Government bodies. A well-established Cricked ground is using for fund mobilization. Since 2016-17, Rs. 913338 and Rs. 2290578 are mobilized from various examination and cricked ground respectively.

**Research Funds:** Faculty members are submitting the research proposals to various funding agencies and amount received from agencies are to be utilized for the research purpose for which the fund is sanctioned.

**Program:** Institute conducts various program such as Faculty Development and Staff Development program. The amount received from the sponsoring agency and participator are utilized for the program.

**Industry Collaboration:** Departments are encouraged to set up labs in collaboration with industries. This will also enhance the skill set of both the faculty and students. Increased Industry Institute-Interaction also help in employability of students and experiential learning. Currently, Labs are setup in collaboration with M/s. Toyota Kirloskar Motor Pvt. Ltd., M/s. Digital Shark Technology, M/s. Renalyx Pvt. Ltd.,etc

**Optimum Utilization of Funds:** Finance department look after effective utilization of funds for recurring and non-recurring expenses. The expenditure is spent on salaries, maintenance, procurement of the equipment/software for the laboratory, students training, staff development, infrastructure development and other day-to-day expenses. In case of any additional requirement, the Institute provide the support. Further, for any infrastructure development management provide the fund on a case-to-case basis.

Every department in the institute maintain stock register for recurring and non-recurring expenses. Every year the committee constituted by the principal, carry out the audit. Any discrepancies raised by the committee during the audit will clarified by the respective Head of the Department. Committee submit the consolidated report to the principal

The various expenditures of the institution are planned by taking inputs from every faculty of the department in advance and the budget plan is prepared in all departments. Based on the departmental budget plans, the institutional budget plan is prepared. The actual spending is once again routed through department to the Principal by evaluating whether the amount has been spent for the prescribed purpose and met the objectives of the department and the institute.

Institute extend financial support in procuring advanced equipment over and above the financial assistance obtained from external agencies. The receipts and payment details are maintained in the department/account section. Amount received on research grants are used for setting up of cutting-edge technology lab and state-of-the-art infrastructure for carrying out relevant research.

To utilize the optimum utilization of resources, principal issue the direction.

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

## 6.5 Internal Quality Assurance System

### 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

#### Response:

IQAC, at JSS Academy of Technical Education is an integral part of the quality culture of the institute and works towards realization of quality assurance. IQAC acts as a nodal agency for coordinating quality-related activities including adoption and dissemination of best practices. Its primary task is to develop a system for conscious, consistent & catalytic improvement in the overall performance of Institute. To realise this, it plans and coordinates all strategies and operations of the institute oriented towards holistic academic excellence.

#### Quality assurance strategies

- Implementing affiliating university CBCS curriculum, NEP 2020 and activity based learning.
- Effective student mentoring system, for holistic development of students.
- To bring in research culture in the institute research publications, innovative projects, consultation, patents, etc.,
- Dissemination of information on various quality parameters of higher education is effectively managed by IQAC.
- The teaching learning processes of the institute are continuously reviewed for measuring the quality of teaching outcomes at regular intervals through department boards. The TLP includes Tutorials,



seminars, assignments, Group discussion, Case study, Study tours, internships, laboratory experiments, mini-projects and projects for improving teaching learning process.

- For better quality assurance, the affiliating university revises the curriculum, for both UG/PG programs and the institute quickly updates its TLP and infrastructure to suit the changes.
- To uphold ethics, values and principles in students through extracurricular activities, sports, yoga and meditation.
- Celebrating national festivals to develop national integrity.
- Participation in various accreditation and quality assurance certifications of Govt. and Non-govt. agencies, viz., NAAC, NBA, NIRF, ARIA, QS I-Gauge, etc.,
- Initiatives for different audits like green audit, energy audit, etc.,

### Quality assurance processes

Quality assurance cell will be part of all major committees of the academic activities and recommend student-centric core procedures.

- The Cell ensures enhancement and coordination among various activities of the institution and institutionalizes all good practices.
- The feedback from stake-holders viz., students, Faculty, Alumni, Parents, and Employers is taken to enhance the quality of the process.
- The quality initiatives in the form of seminars, workshops, faculty development programme and other such initiatives to enhance the quality of teaching learning process in the institute.
- Continuous review of performance of teaching and non-teaching staff of the institute, arrangement of feedback collection by students, by alumni and by faculty about infrastructure, courses offered, programs and activities conducted, Review of teaching learning process, innovative teaching methods, library facilities improvement,
- For initiating the quality in various activities related to academic process through course teachers: viz., course outcomes, the mapping of Course Outcome (CO) - Programme outcome(PO), assessment tools followed, assessment analysis, result analysis, CO and PO attainment.
- Organization of inter and intra institutional workshops, seminars on quality and promotion of quality teaching. Encouraging faculty to make quality research publications and consultancy.

The department academic audit committee members are of HoD, senior Professors in the department and external member from the other institute. The parameters audited are student faculty ratio (SFR), faculty development, research, teaching learning programme (TLP), Industry interaction, student personality development, library, professional bodies, the best academic practices of the department

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

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities ( For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation**

**quality initiatives )****Response:**

IQAC being the central body within the college monitors and review the teaching-learning process regularly. Based on feedback various innovative activities and reforms were introduced. The improvements based on feedback implemented are:

The periodic reviews the teaching-learning process, structures & methodologies of operations, and learning outcomes are conducted by the Heads of Department through departmental quality assurance cell:

**Academic Calendar:** Based on the University Academic Calendar the Institute schedules the academic calendar which in turn is used to prepare departmental calendar of events well in advance at the start of the semester with ample time frame for not only the regular teaching-learning process but also to accommodate the various events like seminar/ guest lecture/ workshops/ FDP's/ co-curricular and extracurricular activities and many more.

**Preparation of lesson plan for each Semester:** The lesson plan is prepared by the faculty members for all the subjects they teach in that particular semester. Enriching the curriculum with identified course gap by the faculty and implementation, assignments, activity based learning, guest lectures, industrial visits, and Internships.

**Mentoring of students:** The institute has effective mentoring system for all the students. One faculty is assigned to a group of students for the all the years i.e., four years in BE program and two years in PG program. Typically, each faculty is assigned with a group of 20 students in UG. Periodic mentor-mentee meetings are conducted and records are maintained with the mentors.

**Evaluation (Feedback) of teachers by students:** The institution has a feedback system to evaluate the teachers by students. The regular evaluation of the teachers by the students, feedback on teaching methodologies, course delivery, attitude, strengths and weaknesses, difficulties faced in the subject give a clear idea about the problems faced by the students. The student feedback evaluation has eleven parameters for teaching faculty and four parameters on supporting staff in the laboratory. These parameters are rated by students on a scale of 1(poor) to 5 (Excellent).

**Performance Appraisal System of Staff:** A well-defined performance appraisal system is in place in the Institute. All the faculty performance are evaluated in a screening committee with their performance in teaching learning process, research and consultancy. Supporting staff performance are evaluated by their section head and Principal.

**Student learning outcomes:** The institute monitors the performance of the students regularly. It has specified procedure to collect and analyse data on student learning outcomes; the following points are adopted by the institute in this context:

- CBCS curriculum of affiliating university is followed. Evaluation of students are based on two parts, Continuous Internal Evaluation (CIE) and Semester End Examination (SEE) for all courses.
- CIE comprising of three internal tests as per the calendar of events, conducted centrally by the Institute.
- Course teaches also evaluate students using assignments, group task, and seminar presentations.
- Faculty provide learning materials like lecture notes, ppt, video links video lectures and question



papers of previous SEE.

- Students grievances are redressed on continuous basis.
- Extra classes/tutorials for slow learner's students to improve their performance.

**Effective internal examination and evaluation systems:** Institute maintains an effective internal examination and evaluation system. Three IA tests and one semester end examination of VTU are conducted in every theory courses. In practical courses, one internal test and one SEE examination as per university time table. The university allots the examiners for the practical courses of with one internal examiner and one external examiner.

**Students' performance analysis:** Institute has the provision of analysis of students' performance after the announcement of their semester results by the university. Course outcomes of the courses are calculated to measure the performance of the students as a part of OBE. If the result of the students, in a subject, is not found up to the mark, necessary steps are taken to find out the reasons and the concerned faculty members are counselled and motivated to work towards improvement.

The institution periodically reviews activities like teaching learning process, structures & methodologies of operations through respective department head.

With administrative staff to review the progress in respect of college administration and steps taken / to be taken for improvement.

The institute conducts periodic review of the academic and administrative functioning. Further, the it collects feedback information from students on Teaching – Learning performance, Central facilities in the campus at the end of each semester. The information obtained is analysed and steps to be taken for necessary improvements are passed on to the concerned departments. The Learning - Outcomes are reviewed after conducting of Internal Examinations and it calls for a one-on one meeting with the faculty of each department to make an assessment of their performance. It evolves mechanism to record and monitor the performance of each student through concerned Departments.

**Incremental Improvements:** The Institute has shown steady improvements in overall performance:

- Steady increase in qualified and experienced faculty with better retention rate of 95%.
- The number of PhD qualified staff is increasing trend.
- Research centres in the Institute have 64 eligible PhD supervisors.
- There is steady increase in research publications in peer reviewed journal.
- Institute has signed MoU with different industries for student's, internship, industry visit, training, guest lecture and projects.
- All the departments have Department advisory board, academic audit was also conducted regularly to ensure the quality parameters required for the academic processes. The DAB consists of Principal, HoD, senior faculty members of department, industry representative, alumni, student representative and parents as members. Typically, in a DAB, the progress of the department is presented on various parameters with quantitative indices are attached herewith. The DAB meetings are conducted regularly with one meeting minimum per year. The deliberations of the meeting are documented and are available in each department.
- Campus placements over the year has increased with higher cost to company (CTC) for the candidates placed in on/off campus drives conducted by the institute.
- Addition of UG new programs/department in the Institute such as Robotics & Automation,

Artificial Intelligence and Machine Learning, B.Sc (Hours) and PG program in Data Science for the academic year 2021-22.

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

### 6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

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

File Description	Document
Upload e-copies of the accreditations and certifications	<a href="#">View Document</a>
Upload details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Upload any additional information	<a href="#">View Document</a>
Paste web link of Annual reports of Institution	<a href="#">View Document</a>

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

##### Response:

Institution has initiated the following measures for the promotion of gender equity

- Safety and Security
- Counselling
- Common Rooms

Gender equity is the process of being fair to women and men in decision making and the provision of resources and the addressing of imbalances. Gender equity recognises that within all communities, women and men have equal opportunities, benefits, access to power, resources and responsibilities.

The Institute gives highest priority on safety and security to women staff and girl students. It also provides facilities like common room and counselling services as it believes supportive, safe and conducive environments are critical to one's growth.

##### A. Safety and Security:

The institute has taken the following safety and security measures.

- Institute level committees such as Women's Committee/College Internal Complaints Committee (CICC) and Anti-ragging committee are constituted as per the university guidelines and are functioning successfully.
- Institute has installed CCTV Camera at Institute Entrance, Library, Workshop, Classrooms, Laboratories, Common area, Principal's office, Vehicle Parking area, Corridors and Computer Centre.
- Awareness programmes on safety and security like self-defense program for girls are also conducted.

##### B. Counselling:

- The institute has a counselling cell headed by a senior faculty. Counsellor addresses all the issues related to students.
- The College Internal Complaints Committee and Women's Committee conducts series of programmes to instil confidence amongst the girl students.
- International Women's Day is celebrated every year to boost the morale through expert talks.
- The girls are encouraged through counselling to participate in various activities like Annual Social Gathering, NSS, Sports, Youth Festival etc. as per their comfort and interests.

##### C. Common Room:

Girl's common room is located in the 3rd floor of academic block C and is provided with essential furniture and facilities like first aid box, bed, etc.

With respect to the above facilities, the following programmes were conducted for both girl students and women faculty of JSS Academy of Technical Education (JSSATEB), Bengaluru.

- **Women's Day Celebration:**

Resource Person-Ms. Gurpreet Jaggi, Head of Global Talent Acquisition

Date: 08-03-2022

- **Breast Cancer Awareness Program:**

Resource Person - Dr. Poovamma C, Senior Consultant and Director – Breast Oncology, Cytecure Hospital, Bengaluru

Date: 05-03-2022

- **Webinar on Gender Sensitization for Girl students:**

Resource Person-Ms. Veena Satish

Access Academy & Services, Bengaluru-64

Date: 16-07-2021

- **Webinar on Gender Sensitization for Boys Students:**

Resource Person-Ms. Veena Satish

Access Academy & Services, Bengaluru-64

Date: 17-07-2021

- **Women's Day Celebration:**

Resource Person-Ms. Shubha Sunil, CEO, Gocybex Pvt. Ltd.

Date: 08-03-2021

- **Everyday Wellness with Yoga & Meditation for Youth:**

Resource Person-Ms. Namitha Bhora, Manager, Aditya Birla Group

Date: 27-02-2021

- **Effects of Pandemic & Adapting to the change (New Normal) – Coping & Resilience:**

Resource Person -Dr. Indrani Pramod

Date: 21-11-2020

• **Women’s Day Celebration:**

Resource Persons- 1. Ms. Hema Nataraj, Co-Founder, Nitya Saadhana

2. Mr. Vinod Tantri, Knowledge Bell

Date: 10-03-2020

• **Induction Programme for First Year Girls Students:**

Resource Persons: Doctors from National Institute of Mental Health and Neuro Sciences (NIMHANS)

Date: 12-02-2020

• **Sensitization for Girl students towards gender discrimination & Sexual harassment:**

Resource Person - Ms. Veena Satish, Access Academy & Services, Bengaluru-64

Date: 16-03-2018

• **Breast Cancer Awareness Program:**

Resource Person-Dr. Jayanthi Thumsi, Consultant Breast Surgeon, Oncology Department, Sparsh Hospitals, Bangalore

Date: 06-10-2017

File Description	Document
Link for annual gender sensitization action plan	<a href="#">View Document</a>
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="#">View Document</a>

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

- 1.Solar energy
- 2.Biogas plant

- 3. Wheeling to the Grid
- 4. Sensor-based energy conservation
- 5. Use of LED bulbs/ power efficient equipment

**Response:** B. 3 of the above

File Description	Document
Geotagged Photographs	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

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

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

**Response:**

#### **Solid Waste Management:**

The sources of organic solid waste generated from JSSATEB, campus is classified into two types viz.,

- Shredded dry leaves from plants and trees with in the campus
- Canteen, Girls hostel kitchen and Boys hostel kitchen

Accordingly, the types of Organic solid waste are:

- Dry Leaves (Leaf-Litter)
- Food Waste

1. Handling storage and processing of dry leaves (Composting)
2. Handling, storage and processing of Food Waste by anaerobic digestion method

#### **Liquid Waste Management : Sewage Treatment Plant (STP):**

A sewage treatment Plant of 2,00,000 litter/day capacity is installed near Block-B in JSSATEB campus. The raw sewage generated from the institute, hostel and kitchen shall be conveyed in to the inlet chamber of the waste water treatment plant. Raw waste water is conveyed to a receiving chamber from where it flows through a screen channel. Manually cleaned bar racks fixed to the screen channel retain the large floating objects and the screenings are disposed off into a trash bin placed adjacent to screen channel. Coarse inorganic suspended matter like gravel, sand and grit are settled in a grit channel. Settled grit is

drained by a pipe. The screened waste water will be collected in underground sump of one-hour detention at maximum flow. The waste water shall be pumped to Carrousel Bio Reactor for removal of soluble organic matter.

### **E-Waste Management:**

E-waste (Electronic-waste) is produced when electronic and electrical equipment become incapable for their originally intended use or have crossed the expiry date. E-waste cover the products include Information Technology and telecommunication equipment such as mainframes minicomputers, PCs, laptops, user terminals, systems, transistors, CRO and printers. Metals used in electronic or electrical products contain hazardous elements such as mercury, lead and cobalt. Therefore, JSSATEB tied-up with recyclers authorised by the Karnataka State Pollution Control Board (KSPCB) to ensure that the e-waste collected is managed in a socially and environmentally responsible manner. JSSATEB has identified the recycling company - EWaRDD AND COMPANY, Bengaluru for safe disposal of E-waste. After initiating the necessary remedial measures, E-waste generated in JSSATEB is disposed off to the above said authorized and certified agency and action taken report will be prepared.

### **Waste Recycling System:**

- Solid waste Management
  - Composting
  - Anaerobic digestion method
- Liquid waste Management
  - Sewage Treatment Plant (STP)

### **Hazardous chemicals and radioactive waste management:**

At first year level of UG programs in JSSATEB, chemistry laboratory experiments are conducted with minimum number of chemicals. Usage of radioactive and Hazardous elements are also negligible in chemistry laboratory. Therefore. Chemicals are disposed into the college drainage system by diluting the concentration.

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

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

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**

**4. Waste water recycling****5. Maintenance of water bodies and distribution system in the campus**

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

File Description	Document
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.5 Green campus initiatives include:**

- 1. Restricted entry of automobiles**
- 2. Use of Bicycles/ Battery powered vehicles**
- 3. Pedestrian Friendly pathways**
- 4. Ban on use of Plastic**
- 5. Landscaping with trees and plants**

**Response:** B. 3 of the above

File Description	Document
Geotagged photos / videos of the facilities	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:**

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

**Response:** B. 3 of the above

File Description	Document
Certification by the auditing agency	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

**7.1.7 The Institution has disabled-friendly, barrier free environment**



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

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

File Description	Document
Policy documents and information brochures on the support to be provided	<a href="#">View Document</a>
Geotagged photographs / videos of the facilities	<a href="#">View Document</a>
Details of the Software procured for providing the assistance	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

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

**Response:**

The Institute has organized the following activities in providing an inclusive environment to the society.

1. The Department of Computer Science & Engineering has organized the following two programs during the year 2019 as a socioeconomic drive:

Technology Barrier Reduction Program – 2019 to the students of the Government rural schools to 30 students of 9th standard on 22nd May.2019. Sessions on English Communication Skills, YOGA, Sports and a visit to Ravi Shankar and ISKON Temple was arranged. Members from YODHA team of JSSATE conducted activities like drawing and cultural activities. Students visited all the departments at JSSATE and spent time in Library for two hours and learnt many things.

2. Go green campaign was organized by the socio-welfare unit ABYUDAYA of the department of Electronics and instrumentation on 5th June 2017 on occasion of world environment day.

3. Vote for India - A rally to create public awareness was organized by the department of electronics and instrumentation engineering on 11-04-2019 under its socio welfare unit ABYUDAYA. The objectives of this rally were to create awareness to the public and society about the necessity and importance of casting their valuable vote.

4. NAREGA- A project on TIME AND MOTION STUDY was organized by the Civil department on 27-04-2018 and is ongoing in three districts Mysore, Kolar and Dakshina Kannada. Mahatma Gandhi National Rural Employment Guarantee Scheme is sponsored by GOI. The mandate of the act is to provide at least 100 days of guaranteed wage employment in a financial year to every rural household whose adult.

5. The Institute encourages the students to celebrate Holi and Ganesha festivals every year in the college campus. The Boys Hostel students celebrate Ganesha festival by establishing Ganesha Idol for about three days in hostel premises where all students from different states were participated in these two events.

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

#### **7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).**

##### **Response:**

It is important to emphasise the need to remember our constitutional duties for the progress our country. Democracy cannot establish deep roots in society until the citizens don't complement fundamental rights with their fundamental duties. A very significant feature of our Constitution is that it balances citizens' rights and duties. These are social concepts that have grown through time, tradition and usage. The citizens' duties as enshrined in the Constitution are essentially a systematization of tasks integral to the Indian way of life — they focus on tolerance, peace and communal harmony. The rationale for citizens' duties can be summarised in the words of Mahatma Gandhi: "The best way to find yourself is to lose yourself in the service of others." Every citizen plays a key role in building a New India — a clean, healthy and prosperous nation.

The Values, Rights, Duties and responsibilities of the Indian citizens are summarized as follows.

- To oblige with the Indian Constitution and respect the National Anthem and Flag
- To cherish and follow the noble ideas that inspired the national struggle for freedom
- To protect the integrity, sovereignty, and unity of India
- To defend the country and perform national services if and when the country requires
- To promote the spirit of harmony and brotherhood amongst all the people of India and renounce any practices that are derogatory to women
- To cherish and preserve the rich national heritage of our composite culture
- To protect and improve the natural environment including lakes, wildlife, rivers, forests, etc.
- To develop scientific temper, humanism, and spirit of inquiry
- To safeguard all public property
- To strive towards excellence in all genres of individual and collective activities

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	<a href="#">View Document</a>

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

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

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

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	<a href="#">View Document</a>
Code of ethics policy document	<a href="#">View Document</a>

**7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).**

**Response:**

JSS Academy of Technical Education, Bangalore celebrates the 3 National Festivals Gandhi Jayanthi , Independence Day and Republic Day.

At the outset, we in our college we celebrate the following National and International festivals:

- Indian republic Day-26th Jan
- Independence Day-15th August
- Gandhi jayanthi-2nd October
- Kannada Rajtotsava-1st November
- International Womens' day – 8th March
- International Yoga day -21st June
- World environment day -5th June
- National Science Day- 28th February
- National Engineers Day-15th September

**National Fesivals of India**

Programme is designed on every National Festival. The programme starts with identification and inviting of Chief Guest followed by welcome address, flag hoisting by Chief Guest, Address by Chief Guest and followed by Vote of Thanks. The chief guest during his address narrates the importance of National festivals and motivates the faculty and students with the spirit of patriotism. On this occasion, the people who have sacrificed their life for the nation were remembered and motivate the young generation to align their individual goals to growth-oriented goals. After the function, networking breakfast is arranged.

### International Festivals:

- **International Women's Day:**

The International Women's Day falls on March 8 every year. This day is celebrated to acknowledge the economic, political, social and cultural achievements of women from all walks of life. The day is celebrated globally, highlighting the struggles and achievements of women.

The official UN themes for Women's Day for each year are as follows:

UN themes for Women's Day	Sl. No	year	UN Theme
	1	2021	Women in leadership: Achieving an equal future in a COVID -19 world
	2	2020	"I am Generation Equality: Realizing Women's Rights"
	3	2019	Think Equal, Build Smart, Innovate for Change
	4	2018	Time is Now: Rural and urban activists transforming women's lives
	5	2017	Women in the Changing World of Work: Planet 50-50 by 2030

**International Yoga Day:** The International Day of Yoga has been celebrated annually on 21 June since 2015, following its inception in the United Nations General Assembly in 2014. The aim of this day is to educate people about the physical, mental and spiritual benefits that can be derived by practising yo

<b>International Yoga Day Programmes List</b>				
<b>Sl. No</b>	<b>Year</b>	<b>Date</b>	<b>Programme name</b>	<b>Target Audience</b>
1	2019-20	06.08.2019	Awareness on Naturopathy and Yoga Relaxation Techniques	Faculty members
2	2019-20	1-08-2019 to 14-08-2019	Physical Activity-Yoga & Meditation	Resident Students of Hostel
3	2019-20	08-08-2019 to 14-08-2019	Physical Activity-Yoga & Meditation	All Engineering First Year Students
4	2018-19	01-07-2018	Yoga Session	Faculty Members
5	2018-19	20-08-2018 to 28-08-2018	Yoga as a part of Induction Programme Initiated by VTU	Engineering Students
6	2018-19	12-02-2019	Surya Namaskar	Students & faculty members

### World Environment Day

Every year, World Environment Day is observed on June 5th. This day is celebrated to encourage awareness and environmental protection. According to United Nations, "The celebration of this day provides us with an opportunity to broaden the basis for an enlightened opinion and responsible conduct by individuals, enterprises, and communities in preserving and enhancing the environment.

File Description	Document
Link for Geotagged photographs of some of the events	<a href="#">View Document</a>
Link for any other relevant information	<a href="#">View Document</a>

## 7.2 Best Practices

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

**Response:**

**Best Practice-I**

**1. Title of the Practice: Social Responsiveness Philosophy**

**2. Objectives**

- Promote Social belongingness attitude among the students and staff.
- Prove Social responsiveness behaviour among students and staff.

Across the globe, educational institutions are partnering with society and government actively in process of Society reengineering. Social reengineering involves the process of identifying the gaps in using the controllable and uncontrollable scarce resources available in nature. The success of reengineering is mainly depends on how the stake holders of society are adopting and implementing in their day to day life. This requires a proper management system in order to create awareness of proper usage, inform resource conserving methods and to collaborate in handling the critical situation. As a matter of duty, our Institute is also engaging in supporting, exhibiting and nurturing social responsiveness behaviour by participating in the Society reengineering programs at institute level.

### **3. The Practice:**

The Institute exhibits the practice of Social Responsiveness philosophy in its transactions with the Society stakeholders along with Imparting the Engineering and Management education. The Institute Social responsiveness exhibited with respect to Academics, Students, Staff and Governance is described as follows;

- Social responsiveness in Academics to address the Quality Human resource:

Attuning to the change in the requirements of industry, to meet the wants, needs and desires of society, the institute is responding continuously with well defined change management system by adopting OCBE philosophy in Academics.

This Philosophy adoption is leading to bring required change in Program, course, curricular contents, Teaching, Learning and Evaluation system.

- Social responsiveness in Student chapter to support Society reengineering programs:

The students of institute are imbibed and inculcated with the philosophy of responding to support in spreading awareness about conservation of scarce resources like water, Electricity, green environment and Importance of Health and Hygiene, Waste management and volunteering in crisis to uphold Humanity belongingness among members of society, participating in managing the society reengineering programs and demonstrating by practicing them.

- Social Responsiveness in Social reengineering programs by staff chapter:

Staffs are the guiding force in imbibing and inculcating social responsiveness philosophy. The Staff mentor and motivate the students of institute in identifying, Planning and executing the socially responsive programs related to social reengineering gaps. Staff also involve in spreading awareness about conservation of scarce resources like water, Electricity, green environment and Importance of Health and Hygiene, Waste management and volunteering in crisis to uphold Humanity belongingness among members of society, participating in managing the society reengineering programs and demonstrating by practicing them.

- Social responsiveness in social reengineering by Management Governance:

The Institute Governance system is strongly defined by strong proven social responsiveness practice example of its Management. The governance defines the policy and practice of social responsiveness in its transactions. The governance of institute are imbibed and inculcated with the philosophy of responding to

support in spreading awareness about conservation of scarce resources like water, Electricity, green environment and Importance of Health and Hygiene, Waste management and volunteering in crisis to uphold Humanity belongingness among members of society, participating in managing the society reengineering programs and demonstrating by practicing them.

#### 4. Evidence of Success:

The following are some of the programs adopted in its governance system;

- Extending Funding support to Faculty and student identified socially relevant live projects
- Recognising the Success and Achievements of students, staff and eminent persons from society.
- Encouraging the Merit cum Mean students with Scholarships
- Recognising and felicitating the contributions of Resigned and retired staff.
- Participating in Energy conservation philosophy of society and supporting at Institute level by using solar, LED and sensor based control systems
- Participating in Water conservation philosophy of society and supporting at Institute level by using Rain water harvesting and water recycling systems.
- Participating in Waste Management philosophy of society and supporting at Institute level by adopting rational waste disposal systems.
- Participating in pollution free Environment philosophy of society and supporting at Institute level by Maintaining Clean pollution free environment with lush green campus.
- Imparting Quality education for all at socially affordable cost compare to nearby institutes of society.
- Encouraging Experiential learning avenues through Institute sponsored field visits, student live projects based on Impact of Engineering and Technology on society, joint research presentations, publications and patent guidance support.
- Encouraging and extending funding support to the staff and students of Institute to conduct socially responsive programs listed below

- Ban Plastic usage campaign
- Blood Donation Camp
- Swatch Bharath Andolan
- Community service in adopted village
- JSS Run for social cause
- Awareness spreading programs
- Supporting NGO by “verve” fest
- Flood Relief
- Disaster relief
- Participating in Disaster management as volunteer



**5. Problems Encountered:**

The implementation support system of Social reengineering practices involve participation of members of society includes internal members like student, staff and parents, External members from the society. Secondly, the support of the local governing bodies. The main problem encountered in initial Human resistance to participate, accept, adopt and practice change. After spreading awareness the implementation of the social responsiveness in social reengineering is achieved to certain level. However, the complete adoptions are a continuous process and take its own time and achieve in future endeavours.

**6. Resources required:**

The funding support from the Government, Institute management, students and staff of the institute are available. However, to increase the magnitude of social responsiveness more resources are essential in future endeavours.

**Best Practice 2:****1. Title of the Practice:**

Strengthening a comprehensive technical competency of faculty and students through online courses

**2. Objectives**

- Develop problem solving approaches
- Develop creative thinking
- Improve the existing technical competency to higher level
- Undergo research work confined to specific field

**3. The Context**

Contextual features are

- Breaking complex tasks in to manageable segments
- Analyzing existing information to come up with appropriate solution
- Bridging gap between industry and academia

**4. The Practice**

- Students and faculty are encouraged to take up online certified courses in National Programme on Technology Enhanced Learning (NPTEL), Coursera and Massive open online courses (MOOCs)
- NPTEL/Coursera certification is considered as metric to measure the technical competency of faculty in the appraisal process.
- Insisting faculty and students to take up NPTEL/Coursera online courses on current trending technologies
- Encourage faculty to enrich their knowledge on the domain of interest through online certification courses

**5. Evidence**

- NPTEL certified courses completed by faculty and students
- Coursera certified courses completed by faculty and students
- MOOCs certified courses completed by faculty and students

### 5. Problems Encountered

- Time management to cope between academic schedule and course assignment deadlines
- Knowledge on prerequisites (Linear algebra, Fourier Transform, Geometry, Programming languages) to take up interdisciplinary advanced courses

File Description	Document
Link for Best practices in the Institutional web site	<a href="#">View Document</a>

## 7.3 Institutional Distinctiveness

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

#### Response:

#### Institutional Distinctiveness

The Vision of JSS Academy of Technical Education, Bangalore (JSSATE-B) is to be among the finest institutions providing Engineering & Management Education empowered with Research, Innovation and Entrepreneurship. The institute has established its distinctiveness by establishing a robust teaching learning process which will help to achieve the vision. JSS Academy of Technical Education was established at Bangalore in 1997 by JSS MAHAVIDYAPEETHA, Mysuru and is affiliated to Visvesvaraya Technological University (VTU), Belgavi, Karnataka and recognized by AICTE, Govt. of India. All the under graduate programs of the Academy are accredited by National Board of Accreditation (NBA) for three years from 2017 to 2020 and subsequently re-accredited up to 2023.

The total strength of students as of now is more than 3038. All the Departments have the Research Centre recognized by Visvesvaraya Technical University, Belagavi, Karnataka. The institute has established appropriate credentials with experienced faculty with less than 2% of attrition rate. Faculty have published more than 2000 publications since inception and has 7 patents filed and 4 patent granted. Faculties have implemented 14-sponsored projects in last five years. Sixty percent of the faculty of the Institute are with PhD qualifications and in another 2 years (By 2023) 95% faculty will be PhD qualified. The Institute has initiated number of multidisciplinary and multi-institutional R&D programs with AICTE, DST, New Delhi, VGST, Govt. of Karnataka and other funding agencies.

#### Teaching and Learning Process:

Outcome Based Education (OBE) is student-centric education system introduced in the country from 2014 as a sequel to Washington Accord to alleviate Technical Education in India to the global standards. This model of education focuses on outcome of the teaching learning process in a quantitative way. The outcomes include Knowledge, Skills and Innovation and Research orientation. The JSSATE-B, Bangalore is practicing OBE progressively starting from the year 2014. The ERP package used is unique in the sense that everything starting from admission to examination, OBE and NBA processes are carried out on this platform. For each subject, “Content Beyond Syllabus (CBC)” activities are being carried out and industry experts are invited to mentor some of the activities. Role play, quiz, case study, project based learning approaches are part of the teaching process. In Each semester at least one industrial visit is arranged for the students to get an exposure to industry activities thereby students will be aware of Industry standards and practices which increase the employment capabilities. Regular Training and Placement activities particularly soft skills and communication skills training and aptitude exposure make the students industry compatible and employable. The Academy provides continued encouragement to the students to compete in the external competitions (such as Tech fests, paper presentations and idea development and innovation contests). Student project exhibition is a regular activity in the Academy every year and a team of faculty/industry experts evaluate the projects to award prizes for the best project in each stream to motivate the students. Management has earmarked Rs 20 Lakhs per year to support students Innovative projects and promote patenting through Academy IPR Cell. A unique counseling process is in place wherein each faculty is allocated 20 students as a Proctor/mentor with an objective to constantly monitor students’ progress and accordingly suggest suitable changes if required.

### **Promotion of Project Based Learning**

JSS Academy of Technical Education, Bangalore is committed to Project Based Learning process. The main objectives of Project Based Learning (PBL) are to improve the learning process and enhance the knowledge base of the students. In this case, a design solution is proposed that involves the bringing together of Project-based Learning with the suitable theory of usable knowledge, developing transferable knowledge and skills demanded by the 21st century. Usable knowledge is the ability to use ideas to solve problems and explain phenomena to optimize science learning environment. This type of learning also enhances how students learn science as a progression toward sophisticated practice of usable knowledge by focusing on coherence, depth, and motivation. The main objectives of PBL are simplified as follows.

- Developing a self-learning skill.
- Providing the reasoning ability
- Developing the conceptual skills

This methodology of learning enhances the knowledge of the students and develops the attitude to solve daily real time problems as a consequent action. It is an effective learning process and in fact both faculty and students learn continuously in this PBL hence become a collaborative learning based on development of a project and a solution. Problem solving, team work, research evidence gathering, time management, integrating the information, role play are different components of PBL

PBL is practiced by almost all of the faculty of JSS Academy of Technical Education, Bangalore. These activities are found to be very impressive to students and they become highly motivated towards the holistic learning of the Engineering education. Students actively participate in this learning process and gain experience through problem-solving and independent investigation. This make them very confident of their knowledge. For example, Metallography and Material Testing Laboratory faculty encourage students to take up open ended experiments by which students understand the basic concepts and physical process

behind the experiment very clearly.

### Evidence of Success

The evidence of success is reflected through the overall performance of Students and Faculty in terms of Teaching, Research, Projects and Consultancy works

- Following large number of MoUs with companies, paid internships and specialized training and projects works undertaken by our students in the companies. A very transparent and strict selection procedure is followed in the selection of students on merit and performance-based evaluation in the relevant skill sets.
- Every year JSS Academy of Technical Education, Bangalore organize open day project exhibition. Each department showcase the project works carried out by the student/students team. Projects are evaluated by the expert team consists of an academician from reputed institute and an expert from the industry. Best project is identified in each department to confer the awards followed by certificates.
- Faculty of JSS Academy of Technical Education, Bangalore has been constantly encouraged and motivated by the Management to pursue strong Research Carrier and impart Quality Teaching in the Academy.

File Description	Document
Link for appropriate web in the Institutional website	<a href="#">View Document</a>

## 5. CONCLUSION

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### Additional Information :

JSSATEB has dedicated cell for extending Training and Placement support for all the students at the campus. The placement cell provides the opportunity through various sources such as on campus drives / pool campus drives, external testing partners and VTU-Central Placement Cell based on the corporate requirements. On an average around 70+ companies visit the campus for placements. Various product / Core and service companies visit the campus every year such as M/s Adobe, M/s OneDirect, M/s Betsol, M/s Hashedin by Deloitte, M/s Phone Pe, M/s Accenture, M/s Cognizant, M/s M/s L&T Infotech, M/s Wipro, M/s Infosys, M/s Tata Consultancy Services, M/s HSBC, M/s Thermax, M/s Triveni Turbines, M/s Ace Micromatic, M/s Accolite, M/s ANZ, M/s Northern Thrust, etc. The best Package till date Rs. 43.17 LPA by M/s Adobe.

Large playing fields support a wide variety of games, such as Cricket, Football, Basketball, Tennis and Volleyball. There are also dedicated spaces for Indoor sport, including Table Tennis, Chess, and Caroms. The Institute also has a gymnasium facility. The campus accommodates specific area marked for yoga. Cafeteria is housed in campus to serve vegetarian hygienic food. Transport facility is provided to faculty and students at a nominal fee. Campus is under CCTV surveillance which is monitored and guarded by professionally-trained security personnel.

### Best Practices:

Scholarships for meritorious students are offered by the Institution through donors from society apart from Scholarships offered by state and Central government agencies. The panoramic student mentoring process by faculty is offered for every student. Students are motivated to participate in various activities conducted by Science and Technology forums. Research activities are encouraged under the supervision of faculty. They are also sponsored to present their work in national and international conferences. Student Innovative Ideas are encouraged to initiate startups through the in-house Incubation centre.

Academic & Research eco system is created for all faculty and are encouraged to conduct quality research and work on innovative patentable projects. Faculty are encouraged to participate / present their research papers in national and international conferences. Institute faculty obtaining Ph.D are felicitated annually.

### Concluding Remarks :

The Institute has strong Governing Council headed by His Holiness Jagadguru Sri Sri Shivarathri Deshikendra Mahaswamiji, President, JSSMVP as Chairman, members from officers of the JSSMVP, Eminent personalities in the society, Academicians, Faculty Representatives and Industry experts. It consists of eminent persons like Justice Sri. Shivaraj V Patil, Prof. M.H. Dhananjaya, representatives from Corporate, Director of Technical Education, AICTE Nominee and VTU Nominee. The governing body mentors the functioning of the Academic, Administrative and Allied activities of the JSSATEB on continuum basis.

The campus is located on a sprawling 21.17 acres land surrounded by lush green plantation on the South-Western region of Bangalore City. The institute has excellent infrastructure with state-of-the-art equipment and

machinery as laboratory facilities. The Campus is spread in four Academic blocks with total built-up area of 48,572 Sq. Mtrs. The institution has spacious Smart Digitally enabled classrooms, seminar/conference halls, workshops and the laboratories. The whole building is networked and has a centralized browsing facility with 500 Mbps dedicated internet facility. The entire campus is enabled with 24X7 Wi-Fi facilities.

Digitally enabled and managed library is available, creating veritable feast of knowledge repository to students, faculty and researchers in a carpet area of 2018 Sq.m with a seating capacity of 350.

JSSATEB has well defined Organization structure and provides a transparent and decentralised governance policy for effective, efficient and economical functioning at all levels. Governance policies empower officers of the JSSATEB authorities for carrying out their Responsibility in Academic, Administrative and Financial matters.



## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p><b>Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years</b></p> <ol style="list-style-type: none"> <li>1. Academic council/BoS of Affiliating university</li> <li>2. Setting of question papers for UG/PG programs</li> <li>3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses</li> <li>4. Assessment /evaluation process of the affiliating University</li> </ol> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. Any 3 of the above</p>																				
1.2.1	<p><b>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</b></p> <p>1.2.1.1. <b>Number of Programmes in which CBCS / Elective course system implemented.</b> Answer before DVV Verification : 19 Answer after DVV Verification: 10</p> <p>Remark : as per hei</p>																				
1.2.2	<p><b>Number of Add on /Certificate programs offered during the last five years</b></p> <p>1.2.2.1. <b>How many Add on /Certificate programs are offered within the last 5 years.</b> Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>4</td> <td>5</td> <td>5</td> <td>2</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>4</td> <td>5</td> <td>5</td> <td>2</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	9	4	5	5	2	2020-21	2019-20	2018-19	2017-18	2016-17	9	4	5	5	2
2020-21	2019-20	2018-19	2017-18	2016-17																	
9	4	5	5	2																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
9	4	5	5	2																	
1.2.3	<p><b>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</b></p> <p>1.2.3.1. <b>Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years</b> Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>760</td> <td>162</td> <td>503</td> <td>351</td> <td>46</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	760	162	503	351	46										
2020-21	2019-20	2018-19	2017-18	2016-17																	
760	162	503	351	46																	

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
760	162	503	351	46

**1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years**

**1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
38	33	33	19	19

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
38	33	33	19	19

**1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**

**1.3.3.1. Number of students undertaking project work/field work / internships**

Answer before DVV Verification : 772

Answer after DVV Verification: 772

**1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders**

**1) Students**

**2) Teachers**

**3) Employers**

**4) Alumni**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

**1.4.2 Feedback process of the Institution may be classified as follows:**

**Options:**

- 1. Feedback collected, analysed and action taken and feedback available on website**
- 2. Feedback collected, analysed and action has been taken**



**3. Feedback collected and analysed****4. Feedback collected****5. Feedback not collected**

Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website

Answer After DVV Verification: A. Feedback collected, analysed and action taken and feedback available on website

**2.1.1 Average Enrolment percentage (Average of last five years)****2.1.1.1. Number of students admitted year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
537	702	770	576	573

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
537	702	770	576	573

**2.1.1.2. Number of sanctioned seats year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
996	996	996	726	762

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
996	996	996	726	762

**2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy ) during the last five years ( exclusive of supernumerary seats)**

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
239	167	211	125	120

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
214	134	175	104	96

Remark : as per hei

**2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year )**

**2.3.3.1. Number of mentors**

Answer before DVV Verification : 169

Answer after DVV Verification: 169

**2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**

**2.4.2.1. Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
84	77	50	44	40

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
84	77	50	44	40

**2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)**

**2.4.3.1. Total experience of full-time teachers**

Answer before DVV Verification : 1705

Answer after DVV Verification: 1704

**2.6.3 Average pass percentage of Students during last five years**

**2.6.3.1. Number of final year students who passed the university examination year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
626	628	606	592	546

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
626	628	606	592	546

**2.6.3.2. Number of final year students who appeared for the university examination year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
655	641	631	630	567

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
655	641	631	630	568

3.1.1 **Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

3.1.1.1. **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
43.02	66.88	82.32	2.4	10.388

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
42.02	66.87	82.30	2.3	10.37

3.1.2 **Percentage of teachers recognized as research guides (latest completed academic year)**

3.1.2.1. **Number of teachers recognized as research guides**

Answer before DVV Verification : 64

Answer after DVV Verification: 63

3.1.3 **Percentage of departments having Research projects funded by government and non government agencies during the last five years**

3.1.3.1. **Number of departments having Research projects funded by government and non-government agencies during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
8	8	7	3	4

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17

7	7	6	2	3
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### 3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
8	8	8	8	8

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
8	8	8	8	8

### 3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

#### 3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
12	5	3	7	7

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
11	4	2	6	6

### 3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

#### 3.3.1.1. How many Ph.Ds registered per eligible teacher within last five years

Answer before DVV Verification : 174

Answer after DVV Verification: 173

#### 3.3.1.2. Number of teachers recognized as guides during the last five years

Answer before DVV Verification : 64

Answer after DVV Verification: 63

### 3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

#### 3.3.2.1. Number of research papers in the Journals notified on UGC website during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
178	136	137	80	82

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
177	135	136	79	81

**3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

**3.3.3.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
75	56	62	49	47

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
74	55	62	48	46

**3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**

**3.4.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
02	00	02	02	02

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

Remark : as per hei

**3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

**3.4.3.1. Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
22	09	03	06	06

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
21	09	03	06	06

3.4.4 **Average percentage of students participating in extension activities at 3.4.3. above during last five years**

3.4.4.1. **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3923	1223	114	2279	232

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2398	637	60	1881	127

3.5.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

3.5.1.1. **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
593	502	278	94	74

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
592	501	277	93	73

3.5.2 **Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**

3.5.2.1. **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
42	32	30	17	12

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
20	2	16	5	9

Remark : as per hei

4.1.3 **Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 61

Answer after DVV Verification: 61

4.1.4 **Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
10.39	153.02	112.32	316.81	633.71

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
10.39	153.02	112.32	316.81	633.71

4.2.2 **The institution has subscription for the following e-resources**

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access to e-resources

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: A. Any 4 or more of the above

4.2.3 **Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

**4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
27.01	31.06	39.16	25.45	20.29

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
27.01	31.06	39.16	25.45	20.29

**4.2.4 Percentage per day usage of library by teachers and students ( foot falls and login data for online access) during the latest completed academic year**

4.2.4.1. Number of teachers and students using library per day over last one year

Answer before DVV Verification : 612

Answer after DVV Verification: 612

**4.3.3 Bandwidth of internet connection in the Institution**

Answer before DVV Verification : A. 750 MBPS

Answer After DVV Verification: A. 750 MBPS

**4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)**

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
599.53	619.07	807.37	708.15	781.65

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
599.53	619.07	807.37	708.15	781.65

**5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years**

5.1.1.1. Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)



Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1000	1100	907	770	627

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
999	1099	908	769	628

5.1.2 **Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years**

5.1.2.1. **Number of students benefitted by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
46	36	26	11	8

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
44	35	24	10	7

5.1.3 **Capacity building and skills enhancement initiatives taken by the institution include the following**

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

5.1.4 **Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

5.1.4.1. **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
738	394	424	800	494

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
735	393	423	799	493

5.1.5 **The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**

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

Answer before DVV Verification : B. 3 of the above

Answer After DVV Verification: C. 2 of the above

5.2.1 **Average percentage of placement of outgoing students during the last five years**

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
286	276	347	325	308

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
285	277	346	324	307

5.2.2 **Average percentage of students progressing to higher education during the last five years**

5.2.2.1. **Number of outgoing student progression to higher education during last five years**

Answer before DVV Verification : 287

Answer after DVV Verification: 286

5.2.3 **Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

5.2.3.1. **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

20	16	19	26	28
----	----	----	----	----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	17	24	27

**5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
20	16	19	26	28

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	17	25	27

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
01	24	54	21	18

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
01	02	49	9	9

Remark : AS PER HEI

**5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

**5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
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34	36	44	44	28
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Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
13	16	35	33	15

Remark : AS PER HEI

5.4.2 **Alumni contribution during the last five years (INR in lakhs)**

Answer before DVV Verification : A. ? 5 Lakhs

Answer After DVV Verification: B. 4 Lakhs - 5 Lakhs

6.3.3 **Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

6.3.3.1. **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
18	11	4	9	5

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
17	10	3	8	4

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course ).**

6.3.4.1. **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
97	115	61	66	67

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
96	114	60	65	66

6.4.2	<p><b>Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)</b></p> <p>6.4.2.1. Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="306 389 1046 524"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>1.4641</td> <td>7.115</td> <td>1.834</td> <td>4.326</td> <td>3.574</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="306 602 1046 736"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>1.46</td> <td>7.11</td> <td>1.83</td> <td>4.32</td> <td>3.57</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	1.4641	7.115	1.834	4.326	3.574	2020-21	2019-20	2018-19	2017-18	2016-17	1.46	7.11	1.83	4.32	3.57
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6.5.3	<p><b>Quality assurance initiatives of the institution include:</b></p> <ol style="list-style-type: none"> <li>1. <b>Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements</b></li> <li>2. <b>Collaborative quality initiatives with other institution(s)</b></li> <li>3. <b>Participation in NIRF</b></li> <li>4. <b>any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)</b></li> </ol> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>																				
7.1.2	<p><b>The Institution has facilities for alternate sources of energy and energy conservation measures</b></p> <ol style="list-style-type: none"> <li>1. <b>Solar energy</b></li> <li>2. <b>Biogas plant</b></li> <li>3. <b>Wheeling to the Grid</b></li> <li>4. <b>Sensor-based energy conservation</b></li> <li>5. <b>Use of LED bulbs/ power efficient equipment</b></li> </ol> <p>Answer before DVV Verification : A. 4 or All of the above Answer After DVV Verification: B. 3 of the above</p>																				
7.1.4	<p><b>Water conservation facilities available in the Institution:</b></p> <ol style="list-style-type: none"> <li>1. <b>Rain water harvesting</b></li> <li>2. <b>Borewell /Open well recharge</b></li> <li>3. <b>Construction of tanks and bunds</b></li> <li>4. <b>Waste water recycling</b></li> <li>5. <b>Maintenance of water bodies and distribution system in the campus</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above</p>																				

7.1.5	<p><b>Green campus initiatives include:</b></p> <ol style="list-style-type: none"> <li>1. <b>Restricted entry of automobiles</b></li> <li>2. <b>Use of Bicycles/ Battery powered vehicles</b></li> <li>3. <b>Pedestrian Friendly pathways</b></li> <li>4. <b>Ban on use of Plastic</b></li> <li>5. <b>landscaping with trees and plants</b></li> </ol> <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: B. 3 of the above</p>
7.1.6	<p><b>Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:</b></p> <ol style="list-style-type: none"> <li>1. <b>Green audit</b></li> <li>2. <b>Energy audit</b></li> <li>3. <b>Environment audit</b></li> <li>4. <b>Clean and green campus recognitions / awards</b></li> <li>5. <b>Beyond the campus environmental promotion activities</b></li> </ol> <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: B. 3 of the above</p>
7.1.7	<p><b>The Institution has disabled-friendly, barrier free environment</b></p> <ol style="list-style-type: none"> <li>1. <b>Built environment with ramps/lifts for easy access to classrooms.</b></li> <li>2. <b>Divyangjan friendly washrooms</b></li> <li>3. <b>Signage including tactile path, lights, display boards and signposts</b></li> <li>4. <b>Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment</b></li> <li>5. <b>Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</b></li> </ol> <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above</p>
7.1.10	<p><b>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</b></p> <ol style="list-style-type: none"> <li>1. <b>The Code of Conduct is displayed on the website</b></li> <li>2. <b>There is a committee to monitor adherence to the Code of Conduct</b></li> <li>3. <b>Institution organizes professional ethics programmes for students, teachers, administrators and other staff</b></li> <li>4. <b>Annual awareness programmes on Code of Conduct are organized</b></li> </ol> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: A. All of the above</p>

## 2.Extended Profile Deviations

ID	Extended Questions
1.1	<b>Number of courses offered by the Institution across all programs during the last five years</b>

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
411	445	445	443	434

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
411	445	445	443	434

**1.2 Number of programs offered year-wise for last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
19	19	19	19	22

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
11	11	11	11	13

**2.1 Number of students year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3154	3038	2864	2601	2513

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3154	3038	2864	2601	2513

**2.2 Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
235	235	235	173	191

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
234	234	234	174	190

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
673	674	633	626	621

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
655	641	630	630	567

3.1 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
169	173	162	161	160

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
169	173	162	161	160

3.2 **Number of sanctioned posts year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
182	174	156	172	177

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
182	174	156	172	177

4.1 **Total number of classrooms and seminar halls**

Answer before DVV Verification : 61

Answer after DVV Verification : 61

4.2 **Total Expenditure excluding salary year-wise during last five years ( INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
636.93	803.15	958.85	1050.41	1435.66

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
636.93	803.15	958.85	1050.41	1435.66



4.3	<b>Number of Computers</b> Answer before DVV Verification : 750 Answer after DVV Verification : 750
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NAAC