SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SHIVAJIRAO S. JONDHLE COLLEGE OF ENGINEERING & TECHNOLOGY

OPP. ASANGAON RAILWAY STATION, ASANGAON, TAL. SHAHAPUR, DIST.
THANE
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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Vighnaharata Trust's Shivajirao S Jondhle College of Engineering & Technology (SSJCET), Asangaon is one of the premier self- financing Engineering Colleges in rural area of Maharashtra. SSJCET is a private, unaided and co-educational institute affiliated to University of Mumbai, approved by AICTE and recognised by DTE, Maharashtra. Our Institute was established in 2007 by the Vighnaharata Trust under the dynamic leaderships of Honourable President Dr. Shivajirao S Jondhle, a leading Agriculturalist and Industrialist and Honourable Secretary Mrs. Geeta Khare, an advocate of quality education and a strong administrator.

SSJCET is situated in Asangaon, Thane District within a sprawling 22-acre campus of Shivajirao S Jondhle Knowledge City. The Institute surrounded by trees, shrubs, green lawns with peaceful ambience provides a healthy and hygienic atmosphere for better learning environment. Since inception, the institute has consistently taken efforts to establish strong teaching learning process. This is achieved through a unique blend of state of the art infrastructure of the institute and a team of dedicated staff.

SSJCET believes in organizing co-curricular activities in order to create a wholesome educaion through which students get an exposure to recent industry developments. The Institute has always envisioned instilling life skills among the students through their participation in various extracurricular activities. SSJCET is committed to impart quality engineering education and creates an environment conducive to the overall development of the student.

Vision

Grounded by value centred education, research guidance and services to become a leading centre for professional courses; recognized nationally and internationally for its excellence.

Mission

- To educate and nurture students, to create knowledge
- To provide service to our industry and society
- Committed to excellence and strive to develop future leaders of our nation & world
- To provide opportunities to reach excellence and enable the students to develop their inner potential

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Visionary Leadership
- Well disciplined students
- Good Students-Faculty Ratio
- Adequate Infrastructure

- Qualified Teaching faculty
- Well-equipped laboratories
- State of the art Library
- Auditorium with Modern facilities
- Gymnasium &Recreation Centre
- Good Team work
- Good Teaching Learning Process
- Mentorship Scheme
- Wi-fi Campus
- Technology aided learning like NPTEL online courses

Institutional Weakness

- Weak Communication skill and presentation skill among the students
- Less research projects from National and International funding agencies
- Gap between industry needs and curriculum upgradation
- Less industry exposure to students, hence lack of placement
- Less consultancy projects
- location of Institute in rural area, hence facing problem to bring campus placement by blue chip Companies

Institutional Opportunity

- To strengthen Industry-Institute Interaction and also Collaboration with more reputed industries
- To provide skills which help students to become successful professionals
- Rural Development work
- Consultancy projects
- To equip laboratories with latest equipments to enable quality research
- Improve the research activities of the institute and Research Funding from external agencies
- Inculcate the spirit of entrepreneurship in students to venture in to start ups and companies.
- Developing Incubation center under Entrepreneurship Development Cell.
- International Collaborations with institutes and universities.
- Developing a dedicated R&D center
- Internships/placement for students
- Preparing student for competitive Examinations Like GATE, UPSC, MPSC etc.
- Alumni networking to enhance the academic and placement activities

Institutional Challenge

- To meet requirements of industries
- Enhancing employability skills of students in rapidly changing technology world
- To make the Curriculum easy to the students of low academic profiles
- Tie-ups with National and International Educational Institutes.
- Enhancing Soft-skills, Aptitude Skills and Technical skills of the students through enrichment programs
- Funded research projects with collaboration of government and private organizations.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Shivajirao S Jondhle College of Engineering &Technology, Asangaon (SSJCET) has set its own Vision, Mission and Quality Policy and adopted Outcome based Education into practice. SSJCET offers Four Undergraduate (B.E.) programs in Civil, Mechanical, Electrinics & Telecommunication and Computer Engineering. In addition to this, two Post-Graduate (M.E.) programs, in Civil Engineering and Mechanical Engineering are also offered. Since SSJCET is affiliated to University of Mumbai (UOM), the curriculum prescribed by the UOM is followed.

The curriculum of our programs is revised by University of Mumbai (UOM) to meet the needs of industry, current research and societal requirements. Further, our industry tie-ups, alumni interactions and co-curricular activities make the students more competitive and industry ready. Good number of events/programs on soft skills and professional development are conducted within the campus to enrich the skills of students. Care is taken to develop appropriate need-based value addition programs, based on the feedback from stakeholders, to suit the professional and personal needs of the students.

Teaching-learning and Evaluation

Since SSJCET is affiliated to University of Mumbai, the curriculum prescribed by the university is followed. SSJCET takes efforts to serve students of different back grounds and abilities. The teaching and deployment of curriculum is done in a systematic and well-planned manner. Before starting of the semester, teaching load distribution is finalized by considering the experience, choice of subject given by the faculty, faculty specializations and interest of faculty in particular subjects. Before starting of the semester, institute and departmental academic calendars are prepared for the entire semester. The faculty members prepare detailed Teaching plan, course notes, and necessary ICT aids, for effective course delivery. The faculty implements the plan, evaluate the performance of students by Continuous Evaluation of assignments, Unit Tests, etc and assign marks for each student.

SSJCET organizes various value-added training programs, seminars, workshops, etc. and encourages students to go for internships during their vacation. Teachers are also sent for faculty development programs (FDP), conferences, industry trainings, seminars etc. to improve their competencies. SSJCET follows the reforms in the assessment and evaluation pattern as per the guidelines given by UOM.

Research, Innovations and Extension

The Institute encourages faculty and students to present and publish papers in National and International conferences to support academic activities. Faculties of SSJCET are also encouraged to pursue PhD from various reputed institutes like IIT, ICT, NIT and other leading universities.

The institute has collaborations and MOUs with many industries and research institutes

Training programs, workshops and seminars are organized for developing a scientific and research-oriented temperament. Library resources including National and International journal prints, e-journals and e-books etc.

and well-equipped computer systems are made accessible to the students and faculty. The college provides assistance and support to engage in various internship

programs. Field visits and Industrial visits are organized to bridge the gap between Industry and academics.

The institute has established incubation center in which our Mechanical Engineering students are working on design and fabrication of All Terrain Vehicle (ATV) and encourages the students to participate in various national and international events like SAE BAJA, Tech-fest etc.

SSJCET organizes many activities to create the awareness about social activities among the students and ensure the participation of students in these programs like Blood Donation Camps,

Cleanliness Drive, Tree plantation, Awareness sessions on women health and legal aspects on safety, etc.

Infrastructure and Learning Resources

The campus has ample space for all academic, administrative, co-curricular and extracurricular activities. The Institute has adequate number of classrooms, tutorial rooms, well equipped laboratories, seminar halls and a state of art auditorium with a capacity of more than 600 seats.

Potable water supply is provided everywhere and the infrastructure is comfortable for physically challenged students. Facilities for sports, physical fitness, gymnasium, indoor and outdoor games are also available.

A well-stocked, spacious library with sufficient volumes of books as per the norms of AICTE and subscribes National Journals and International journal prints. In addition to these, the library has a collection of e-journals, e-books, NPTEL videos and online NPTEL web courses also got membership of National Digital Library (NDL). More than 400 computers and several licensed Softwares are available for students and staff in our College. SSJCET has established Centre of Excellence in collaboration with Educadd Institute to run value added training programs for staff and students. The campus is Wi-Fi enabled for the benefit of students and faculty members. Solar Photovoltaic panels as alternate source of energy have been installed to meet the power requirement and also to overcome load shedding issue.

Student Support and Progression

SSJCET Academic calendar, prospectus etc. help in dissemination of information regarding the support systems available to students. Students get the financial benefits declared by the Government from time to time. Students receives scholarships from Social Welfare Department of Government of Maharashtra (GoM). Ragging is totally prohibited in SSJCET campus.

A range of facilities such as Playground, gymnasium, first aid, fitness centre, support for slow learners, coaching for competitive exams, placement training sports and games are available. In addition to these, Entrepreneurship Cell, Incubation centre, Centre of Excellence, an active Industry-Institute-Interaction Cell and so on are available to students and staff. Support like career guidance and placement services, grievance redressal and other welfare measures are made available to all students. The College has an active students' council which takes the responsibility for conduct of Co-Curricular& Extra-curricular activities.

Governance, Leadership and Management

SSJCET, Asangaon is governed by Vighnaharata Trust, a registered charitable Trust established by Dr Shivajirao S Jondhle, Honourable President in the year 2005 with the basic objective of promoting technical and professional education. The vision of the college is to achieve excellence in technical education and to achieve this, the mission of the institute is well articulated. The departments, in turn, have formulated their vision and mission in tune with that of the institute.,

The main motive behind this institution is to impart high quality competency based technical education to the stakeholders so that they can take up challenges and overcome the issues.

The Governing Council (GC) gives general guidelines for appropriate governance to realize the vision. The top management provides effective academic leadership to the faculty, by setting goals and involving them in participative decision-making process not only to achieve the vision, mission and goals of the institute but also in building the organizational culture.

The resolutions made by various committees and the status of implementation of such resolutions have been explained in this criterion. SSJCET has got the best feedback mechanism from all the stakeholders. SSJCET has established IQAC for policy decisions and already taken quality initiatives in the College so as to make SSJCET as a student centric institute.

Management of SSJCET has empowered its faculty at all the levels of the organization. The participation of teaching faculty in the GC of institution has been ensured. The entire stakeholders are involved in the development of the Institute.

Institutional Values and Best Practices

Institute has developed an environmental policy which states its commitment to protect and sustain ecological resources and their equilibrium, particularly within the campus. Conscious efforts to inculcate a sense of responsibility towards the environment among students are taken. The environmental policy of the College underpins its commitment to environmental protection. The steps taken for making the SSJCET campus environment friendly are: Various Energy conservation initiatives, Water harvesting, Tree plantation cum gardening, Waste Management, Minimum use of paper, etc. One of the best practices in SSJCET is the energy saving by installing Solar Photovoltaic panels as alternate source of energy which meets the power requirement and also overcomes load shedding issue. The whole Institute is with the fully use of solar energy and LED lights.

Another notable best practice is empowering the students by forming Students Associations in each Department and organizing many co-curricular and extra-curricular activities. This helps to inculcate teamwork, leadership qualities, and develops a strong bonding between students and faculty. Students with the help of faculty conducts many social activities like blood donation camp, tree plantation, cleanliness drive, etc. which helps to cultivate a sense of social responsibility in the students and inspire community work.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	Shivajirao S. Jondhle College of Engineering & Technology
Address	Opp. Asangaon Railway station, Asangaon, Tal. Shahapur, Dist. Thane
City	ASANGAON
State	Maharashtra
Pin	421601
Website	www.jondhleengg.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Geetha K. Jayaraj	02527-273999	9594962029	02527-273999	vjtsscoe@rediffmail.com
IQAC Coordinator	Amol S. Dayma	0251-6459999	8007221976	0251-2482121	asdayma@gmail.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	28-06-2007

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Maharashtra	University of Mumbai	[View Document](#)

Details of UGC recognition	
Under Section	**Date**
2f of UGC	
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	[View Document](#)	10-04-2017	12	EOA received on Yearly basis

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
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?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Opp. Asangaon Railway station, Asangaon, Tal. Shahapur, Dist. Thane	Rural	10	16658.53

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC or Diploma or Science Graduate	English	60	39
UG	BE,Computer Engineering	48	HSC or Diploma or Science Graduate	English	60	49
UG	BE,Electronics And Telecommunication Engineering	48	HSC or Diploma or Science Graduate	English	90	12
UG	BE,Mechanical Engineering	48	HSC or Diploma or Science Graduate	English	120	65
PG	ME,Civil Engineering	24	BE CIVIL	English	24	24
PG	ME,Mechanical Engineering	24	BE MECHANICAL	English	24	3

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				12				21				69
Recruited	4	1	0	5	4	2	0	6	47	19	0	66
Yet to Recruit				7				15				3
Sanctioned by the Management/Society or Other Authorized Bodies				7				15				22
Recruited	3	0	0	3	2	1	0	3	15	7	0	22
Yet to Recruit				4				12				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				14
Recruited	7	7	0	14
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				9
Recruited	7	2	0	9
Yet to Recruit				0

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Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				12
Recruited	9	3	0	12
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				4
Recruited	2	2	0	4
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	1	0	0	0	0	0	0	0	4
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	1	0	0	4	2	0	47	19	0	73

Temporary Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	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

Part Time Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	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	1	1	0	14	6	0	22

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	5	1	0	6

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	929	0	0	0	929
	Female	254	0	0	0	254
	Others	0	0	0	0	0
PG	Male	30	0	0	0	30
	Female	17	0	0	0	17
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	16	44	29	35
	Female	7	8	14	10
	Others	0	0	0	0
ST	Male	5	9	7	5
	Female	0	11	3	5
	Others	0	0	0	0
OBC	Male	33	75	70	65
	Female	18	25	24	22
	Others	0	0	0	0
General	Male	72	109	115	131
	Female	19	16	27	28
	Others	0	0	0	0
Others	Male	16	38	31	54
	Female	6	11	8	9
	Others	0	0	0	0
Total		192	346	328	364

3. Extended Profile

3.1 Programme

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

Response : 242

Number of self-financed Programmes offered by college

Response : 06

Number of new programmes introduced in the college during the last five years

Response : 02

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1304	1532	1566	1630	1498

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

2016-17	2015-16	2014-15	2013-14	2012-13
315	282	257	192	197

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

2016-17	2015-16	2014-15	2013-14	2012-13
367	375	318	348	214

Total number of outgoing / final year students

Response : 1622

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
111	110	123	116	108

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

2016-17	2015-16	2014-15	2013-14	2012-13
77	88	90	86	77

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
104	104	100	96	88

Total experience of full-time teachers

Response : 593

Number of teachers recognized as guides during the last five years

Response : 04

Number of full time teachers worked in the institution during the last 5 years

Response : 418

3.4 Institution

Total number of classrooms and seminar halls

Response : 31

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

2016-17	2015-16	2014-15	2013-14	2012-13
458	477	466	555	499

 Number of computers

Response : 413

Unit cost of education including the salary component(INR in Lakhs)

Response : 0.911

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.351

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:

Our college adopts the curriculum provided by University of Mumbai. The curriculum is operationalized with the overall framework provided in line with our institution's objectives. Coverage of syllabus as per university is planned along with co-curricular & Extracurricular activities as depicted in the flow chart.

At the beginning of each Academic year the University of Mumbai gives an Academic calendar with the guide line about the date of commencement of each semester, End of Semester Examination, Oral/Practical Examination, and vacation slot etc. Accordingly the Institute Academic Calendar is prepared and then distributed to the departments. Time table preparation committee follows the academic calendar and prepares the department timetable by each department timetable coordinator in consultation with respective Head of the Department.

Subject allocation to the faculty is done by HOD based on his/her area of specialization and choice by respective faculty. The Subject distribution is planned well in advance for proper academic implementation.

Theory teaching plans, practical teaching plans, and lab manuals are prepared by faculty for the respective subject allotted before commencement of semester considering academic calendar and time table. Faculty maintain course file, which contain following information: Mission and Vision of Institute and Department, Academic calendar, semester timetable Individual time table, Syllabus, Teaching plan, Teaching notes, practical Manual, assignment/ tutorial questions, Question bank, Presentation PPTs, Unit Test Question papers with solutions and previous year university question papers etc.

As per academic calendar and time table, along with co-curricular and extra-curricular inputs, lectures are conducted by respective departments. Review of syllabus coverage is being done by HOD/ Academic Coordinator at the end of every month. It is ensured that 40% of the syllabus is completed before Unit test I and 70% of the syllabus is completed before Unit test II.

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 42

1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
12	12	06	10	02

File Description	Document
Details of the certificate/Diploma programs	[View Document](#)

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 100

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
77	88	90	86	77

File Description	Document
Details of participation of teachers in various bodies	[View Document](#)
Any additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 86.36

1.2.1.1 How many new courses are introduced within the last five years

Response: 209

File Description	Document
Details of the new courses introduced	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 6

File Description	Document
Any additional information	[View Document](#)
Name of the programs in which CBCS is implemented	[View Document](#)

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

Response: 60.25

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

2016-17	2015-16	2014-15	2013-14	2012-13
1304	1532	456	784	360

File Description	Document
Any additional information	[View Document](#)
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

As an affiliated college of the University of Mumbai, Our College SSJCET, there is no significant role played by the college for curriculum design & development on an ongoing basis. However the institute plans for the overall & holistic development of the students in the areas of gender, environment & sustainability, human values & professional ethics. Technical & cultural festivals which incorporate the above to some extent, along with separate stated events such as blood donations, tree plantation, cleanliness drives etc.

The university syllabus clearly adopts & includes environment & sustainability, human values &

professional ethics in the following subjects.

1. Environmental Studies

The subject introduced in First Year Engineering creates the awareness about environmental problems among students imparting basic knowledge about the environment and its allied problems, developing an attitude of concern for the environment, motivating students to participate in environment protection and improvement, acquiring skills to help the concerned individuals in identifying and solving environmental problems etc.

2. Business and Communication Ethics

This is introduced in Third Year Engineering in order to inculcate in students the professional ethical attitude, effective communication skills, teamwork, skills, multidisciplinary approach an ability to understand engineers' social responsibilities, to provide the students with an academic environment where they will be aware of the excellence, leadership, lifelong learning needed for a successful professional career.

i) Gender:

To handle the issues related to Gender, an Internal Complaints Cell/ Women Grievances cell is constituted and the objectives are as follows:

- To prevent sexual harassment and to promote the general well?being of female students, teaching and non?teaching women staff of the University.
- To provide appropriate working conditions in respect of work, health and hygiene to further ensure that there is no hostile environment towards
- women at work places and that no women employee has reasonable grounds to believe that she is disadvantaged in connection with her employment.
- To provide guidelines for the Redressal of grievances related to sexual harassment of female students, teaching and non?teaching women staff of the University.

All the necessary requirements for the girls/ladies in the college have been adequately taken care of in the campus. No issue of gender discrimination has been reported so far.

ii) Anti-Ragging

As per the guidelines of UGC, AICTE and the University, an Anti- Ragging Committee has been constituted to handle the issues pertaining to ragging. The names of the committee members along with their mobile numbers are displayed at different places in the institution. Any student can lodge a complaint without disclosing his/her identity in case of any in convenient incident.

iii) Environment and Sustainability

SSJCET organizes various programs on Environment and Sustainability like:

- Tree Plantation drive
- Water Conservation

- Reduce, Reuse and Recycle- organizing poster competition and awareness program.
- Projects assigned to B E Civil students on Rain water harvesting, Bio gas from Canteen waste and value added products from waste.
- Swacch Bharat Pakwada celebrated by organizing various cleaning campaigns.

iv) Human values & professional Ethics

SSJCET regularly conducts the following activities like:

- Organizing Blood donation Camp
- Visiting mentally challenged children school and donating clothes, food etc. Also celebrated festival with the children.
- Organizing seminar/workshop on Professional Ethics

File Description	Document
Any Additional Information	[View Document](#)

1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years

Response: 17

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 17

File Description	Document
Any additional information	[View Document](#)
Details of the value-added courses imparting transferable and life skills	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 19.27

1.3.3.1 Number of students undertaking field projects or internships

Response: 237

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	View Document

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

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

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.26

2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
07	05	03	01	03

File Description	Document
Institutional data in prescribed format	View Document
List of students (other states and countries)	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 96.93

2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1304	1532	1488	1440	1320

2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1536	1536	1488	1440	1320

File Description	Document
Institutional data in prescribed format	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 90.85

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
220	238	257	192	197

File Description	Document
Institutional data in prescribed format	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

The institute caters to a diverse variety of students such as student from local rural area, the slow learners, advanced learners & students with physical disability.

The location of the institute is in remote, backward, rural area & by this virtue helps local students to pursue higher professional education.

Both Advanced and Slow learners are identified based on their MHT-CET/JEE results, and subsequent performance in continuous internal assessment tests and university results. Our college stresses to ensure that we assist both slow learners and advance learners.

Advanced learners

The college recognizes and promotes the skill and knowledge of the advanced learner by allowing him/her to do research projects, giving more training. Advanced learners are advised to take part in conference and encourage publishing papers in technical journal/conference under the guidance of faculty member. They are advised to crystalize their ideas into project and also motivated to exhibit such works in various national/international profession associations. Students desire in pursuing higher studies in India or abroad are counselled in selection of courses/Universities/colleges also provided training or awareness programmes by certain institutes. Institute also organizes value added courses and training programs for the students.

The central library has a collection of books to help them prepare for competitive examination via, GATE, Civil Service, MPSC etc. Students who would like to pursue higher studies are advised to make use of these facilities.

Students are encouraged to join NPTEL online certificate courses and participate in consultancy activities of various departments of the institute.

The advanced learners are benefited from seminar, workshops, expert lectures that are planned & organized by the institute and to do internship in Industry.

Slow learners

The Departments maintain student data system regarding academic related activities like assessment test, university examinations& internal examinations performance. The personal data will be maintained by the individual faculty mentors. Each mentor is put in charge of 20 students to monitor, shape and advise them to ensure their overall comprehensive growth and achievements. The slow learner are identified by the low marks obtained in the first unit test & remedial measures are undertaken. Slow learners are given more attention by the teachers both during theory & practical hours. University exam failed students are given the necessary supportive guidance by the faculty members.

The following measures are taken for the improvement of slow learners/Physically disabled students:

1. Student counselling by faculty Mentor
2. Motivation Lectures.
3. Remedial classes and tests for the needy students.
4. Discussing the student progress with their parents at regular intervals.
5. Psychological counselling conducted every year for depressed students by a special counsellor
6. University exam failed students are given the necessary supports by the faculty members.
7. Dyslexia students are given extra time during university exam as per university rules.
8. Student with physical disability is provided with ramps, lifts & separates sanitary facilities.
9. They are given extra time during university exam as per university rules.

2.2.2 Student - Full time teacher ratio

Response: 11.83

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.16

2.2.3.1 Number of differently abled students on rolls

Response: 2

File Description	Document
Institutional data in prescribed format	View Document
List of students(differently abled)	View Document

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:

The institute incorporates variety of teaching learning modalities which suit students with different abilities and backgrounds. The classroom lectures enhance individual & interactive learning. Encouraging students to participate in seminars & presentations also helps them in individual and interactive learning. NPTEL Learning modules help in individual learning. Students are motivated to register for NPTEL online courses and to appear for exams so that they will have value addition certificates.

Project competitions such as BAJA, Hackathon, ROBO & industry based Mini-Projects instill responsibility of gaining knowledge through experiential learning & collaborative learning.

1) Students are also encouraged to interact during the lecture hour by getting their doubts clarified on the spot.

2) All the departments of the college have few class rooms with audio and video facility. This facility is made use of for classroom teaching, interactive sessions and student project presentations.

3) Our institute is currently in the process of adopting Moodle based teaching learning methodology. The use of ICT such as internet applications, CDs, Video is effectively used for teaching. Faculty members use e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL), working models, open courseware from national and international universities and animation videos which explain the process for effective teaching.

4) Well established laboratories and good library facility are provided to our students to enable independent learning.

5) Live projects are given to the students and they are guided by both faculty and Industry/Research personnel.

6) Guest lecturers from experts from the Industry, Academic and Research Institutions are arranged by each Department.

7) Seminars by students: The Staff member assign the seminar topic to the students. The topic will be based on the theory syllabus. Students are encouraged to collect the data from the field/Industries/online and share in the class. Seminars, Workshops and Guest lecturers enhance individual and interactive learning.

8) Technical Societies and Student chapters of National/International Associations are active and students are encouraged to present technical papers at National/International Conferences. Peer interaction is done through inter collegiate student technical symposia which are arranged and conducted by students. This helps in individual and interactive learning.

9) Industrial and Field Visits: During the period of the programme, many Industrial visits and field visits are arranged to the industries and also an Industrial Tour is arranged each Department in every year. Visits to industries across the country help the students to gain through experiential learning.

10) Personality development training programmes are also conducted to make our students better citizens.

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 104

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 16.18

2.3.3.1 Number of mentors

Response: 76

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document

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2.3.4 Innovation and creativity in teaching-learning

Response:

Apart from conventional classroom teaching using Chalk and Board method, we have adopted innovative way of teaching through the means like PPTs, charts, cut section models, and e-learning resources through National Programme on Technology Enhanced learning (NPTEL) etc.

Institute organizes industry visits, guest lectures, seminars on various topics etc. to provide an industrial exposure so that the students get to know the current methodologies adopted in various industries.

Students are given Mini-projects through which the students are able to work in a team, develop their leadership skills, and provides a platform to sit and discuss on new ideas, how to put their into working model and to arrive at cognitive solutions.

Institute encourages the students for Internship during their vacation, also provides opportunity to attend online sessions by AICTE/ Govt. of India/other agencies.

Students are motivated to participate in technical events at College &University level, even National Level also which provides a chance to showcase their innovative ideas& creativity.

Use of projectors and internet also help the learners to come closure to the research and development taking place in all disciplines.

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 85.15

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 3.59

2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	4	1	2

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience of full time teachers in number of years

Response: 5.7

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	View Document

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 22.49

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
22	25	34	13	02

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 5.95

2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	08	06	04	02

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

Academic calendar is prepared and circulated among staff and students well before the commencement of each semester. Our institute follows the guidelines and rules prescribed by University of Mumbai (UOM) for both UG and PG students. At the beginning of the semester, students are informed about the criteria for evaluation of marks by respective faculty in the very first lecture. UOM has introduced Credit based grading scheme (CBGS) in the Academic Year 2012-13 and choice based scheme (CBCS) is introduced in the Academic Year 2016-17.

As per the latest guide lines of University, the theory examination pattern has been divided into 20-80 ratio marking. There are two Unit Tests (UT) to be conducted in every semester, each UT paper carries marks of 20 and an average of both the UT are calculated and awarded for final marks for Internal Assessment (IA). First UT will be conducted after the syllabus coverage of 40% and the second UT will be conducted after the syllabus coverage of 70% of whole syllabus, and the schedule of both the UT are displayed in the Institute Academic Calendar. Both UT are being conducted in a centralized manner and following the pattern of University Examinations. UT I&II marks are displayed on Notice boards and the answer sheets are shown to students by which the students get to know their performance level and understand the evaluation process.

It is compulsory for the student to sign the evaluation mark sheet which helps in maintaining the transparency. To improve the students' performance in Examinations question banks for theory as well as Oral Examinations are also provided.

Another evaluation processes are End Semester Theory Examinations (ESE), TW assessment, Oral and Practical Examinations as per UOM.TW comprises of assignments and practicals as per the syllabus in each subject. The evaluation of each assignment and practical is done by the teacher periodically. Oral and Practical Examinations are conducted and assessed by both Internal and External Examiners, decided from the panel of Examiners approved by UOM. The institute deputes Examiners and gets approved by UOM for the evaluation of Theory Examinations.

The institute conducts all examinations as per University schedule. The institute has got well equipped infrastructure to conduct all Examinations, meeting the guidelines prescribed by UOM.

For conducting Internal Examinations smoothly, Institute has Exam coordinators from each Department. For conducting University Theory Examination an Internal Vigilance Squad is also constituted in order to maintain a well disciplined and transparent conduction.

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Institution implements all the evaluation reforms as prescribed UOM. Major evaluation reforms adopted by UOM are the online assessment /Moderation of First Year and Final Year of Engineering (Sem I, II, VII, VIII) and the assessment/Moderation of other semesters of ESE are done in the college itself. In all cases, the Examiners are from the panel of University Examiners panel. Marks of Term work (TW), Oral, and

Project work of Sem VII &VII are submitted online to UOM. University has adopted 80-20 marks system for all semesters. For ESE, maximum of 80 marks is awarded in each subject and for Internal Examination (UT) maximum 20 marks is awarded in each subjects. College has adopted credit system as per UOM guidelines.

Unit tests are planned according to the academic calendar, after completion of 40 percent syllabus UT I is conducted and after completion of 70 percent syllabus, UT II Second is conducted. Subject wise question bank are provided to the students for respective subjects.

Solution of UT Question paper is submitted to Departmental examination coordinator by respective subject teacher. Unit test Answer sheets are shown to students & their signature is taken on specific formats. Term work grading sheet comprises of mini-project, assignment, tutorials, attendance, experiment marks which is shown to students & their signature is taken

Unit test answer sheets are shown to parents during parents meeting. As per university rules, moderation for minimum & maximum marks are done.

The institute has practice of masking and coding the answer sheets for ESE to have transparency and no bias in evaluation of answer sheets. Before awarding final marks, moderation is done by moderator as per the guidelines by UOM.

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Regarding Unit Test –I & II, the students will be shown the answer sheets of each subject after assessment. Necessary actions will be taken by the concerned staff in consultation with the HOD.

Regarding University examination, if the students are not satisfied with the assessment of their answer paper then the students are given options to redress their grievances. The student can apply only for revaluation, photocopy or both simultaneously. Students can directly apply for revaluation without requesting for a photocopy of their answer book, for this the student has to collect the revaluation form from exam cell, fill all the details properly and submit the form with required documents.

If the students applied for the photocopy of answer books, the scanned photocopies of answer book for First year and Final year students will be sent to the student's email id by the University whereas Second year and Third year students will get email of scanned photocopy from the college.

For First year and final year students revaluation application forms are collected and sent to the University for Further Process. After revaluation revised gazette will be sent to college by University.

For second year and third year students revaluation application forms are collected and accordingly the revaluation of the answer books will be done by the examiner from the University panel. The revised gazette after revaluation will be sent to University for approval. After receiving the approved gazette the result will be displayed.

No redressal of grievance for the Oral/Practical/Term-work/Seminar Examination as per University norms.

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The institute Academic calendar is prepared based on university of Mumbai Academic calendar and it is displayed on all Notice Boards, circulated among staff and students well before the commencement of each semester.

The academic calendar contains Semester commencement date, Term End, schedule of Unit Test (UT) I&II, submission of Term Work (TW)/ Oral/ Practical Examination, Co-Curricular& Extra-curricular activities, and commencement of theory Examination, University declared Holidays etc are mentioned.

The time table committee prepares Time table in consultation with respective HOD and displays on Departmental notice boards before the commencement of semester.

HOD distributes work load in discussion with the staff and collects their choice of subjects based on Qualification, area of Specialization etc. to finalize the Elective Subject the student's choice is collected and accordingly allots the elective subjects. Every faculty prepares Teaching programme and updates progress of curriculum delivery, maintains attendance record etc. Instruction delivery takes place according to time table and monitored by Academic coordinators. Records of lectures/Practicals/Tutorials are maintained by respective staff and also updates their teaching progress accordingly.

UT I after 40% syllabus coverage and UT II after 70% syllabus coverage will be conducted as scheduled in the academic calendar. HOD has to take a review and ensures the syllabus coverage and the progress of teaching monthly. Books are procured in library according to the requirements received from each Department.

Results of UT I&II are analysed and weak students in each subject are identified, counselled and provided necessary help. List of Defaulters is prepared and intimated to parents highlighting the student's status by HOD and Class Teacher. Remedial classes, Revision etc will be held during the semester.

TW, assignments are evaluated based on continuous assessment and submission of TW is done during the allotted time as scheduled in Academic Calendar.

As per guidelines and syllabus provided by University, the evaluation system of each subject varies somewhat in the pattern but the following evaluation system is adopted in general:

Internal Assessment (IA): In a semester, there are 2 UT, each carries 20 marks, to be conducted as per the schedule mentioned in Academic Calendar. Average marks of both the tests, with maximum 20 marks, will be considered for final assessment.

End Semester Examination (ESE): Question papers will be prepared by the Examiners allotted by University and the total marks of the paper is 80 marks.

Termwork: This comprises of assignments, laboratory experiments write ups, etc and is prepared according to the syllabus. Assignments are given during the tutorial class and students will complete during the slot. TW assessment must be based on the overall performance of the student, with every assignment graded time to time. Experiments as per syllabus are to be performed in Laboratories and assessed by the faculty.

Oral/Practical examination: External and Internal examiners from the panel of Examiners will be conducting the examination and marks are awarded according to the student's performance.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

The Vision and Mission statements are displayed on the college website, on Notice Boards, and various places like entrance of the Departments, HOD cabin, Central library, Gymnasium, Auditorium, and Canteen etc.

The course Objectives are stated in the syllabus promulgated by UOM. The weekly load of Lecture, Practicals, Tutorials, Scheme of evaluation, List of Electives are stated in it. The Chairman of BOS decides orientation programs for the faculty handling the subject and curriculum planners will provide the guidelines regarding the contents, delivery, extent of subject to be covered under each topic, evaluation of Laboratory works etc.

The course outcomes are written by the respective faculty member using keywords of learning levels. Course Outcomes (CO) in each subject from Semester I to VII are prepared by the concerned faculty and attached in the course file. Course Files are to be checked and approved by respective HOD before communicating to students. COs and POs are discussed by faculty members in the classrooms during introductory lecture of respective Subject and students are asked to write the COs in their Lecture Notes.

Programme Outcomes (POs), Course Outcomes (COs), Programme Educational Objectives (PEOs), and Programme Specific Outcomes (PSOs) are defined by every Department. POs, PEOs, and PSOs are disseminated on college website, at the entrance of the Departments, HOD cabin, Note books of Students, Roll Call Books, Course Files of Faculty members etc.

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

- Course outcomes (CO), program specific outcomes (PSO), and Program outcomes (PO) are to be well defined and prepared.

- A correlation is established between COs and POs, COs and PSOs, in the scale of 1 to 3, 1 being

the slight (low), 2 being moderate (medium) and 3 being substantial (high).

- A mapping matrix is prepared in this regard for every Course, CO, PO and PSO in the program including the elective subjects.

- Direct tools like Unit Tests (UT), Assignments, Practicals, Tutorials, Seminar, Project work, University Theory and Oral Exams, defined etc., are used for the evaluation of Course outcomes (COs).

- POs and PSOs are evaluated by using evaluation of COs and Indirect Tools like Surveys from Alumni, Employer, Parents, Teachers and Students etc.

- Program Educational Objectives (PEO) are also evaluated by using Indirect Tools like Surveys from all stakeholders.

- Attainment of all outcomes are calculated and compared with expected level of attainment decided by IQAC.

- If attainment was up to the expectation then new target will be set for next semester and if it is not satisfying the expected attainment level then necessary corrective actions are to be initiated and implemented with immediate effect.

2.6.3 Average pass percentage of Students **Response:** 92.44
2.6.3.1 Total number of final year students who passed the university examination Response: 367
2.6.3.2 Total number of final year students who appeared for the examination Response: 397

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process **Response:**

File Description	Document
Database of all currently enrolled students	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years

Response: 0.75

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0.50	0.25	00	00	00

File Description	Document
List of project and grant details	[View Document](#)
Any additional information	[View Document](#)
e-copies of the grant award letters for research projects sponsored by non-government	[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 3.85

3.1.2.1 Number of teachers recognised as research guides

Response: 04

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0

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

Response: 01

File Description	Document
Any additional information	[View Document](#)
List of research projects and funding details	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

SSJCET has established Institute Industry Interaction cell, Skill Development and Entrepreneurship cell for the students and staff to update their knowledge, to know the latest advancements in Industry as well as to explore and implement their new ideas through these cells. Every Department also interacts with Industries so as to arrange activities like seminar, workshop, guest lectures, and industrial visits etc which help to know the industry needs, the gap between industry and academia and the challenges so that our students can be prepared for industry requirements. Students also take up live projects in collaboration with industry.

Centre of Excellence is also established in SSJCET and the objectives are to train the students various softwares which are used in Industry, students will be able to do better quality projects using these softwares and also to take up consultancy work by staff and students.

Incubation centre is also established through which our Mechanical Engineering students participate BAJA SAE, an intercollegiate design competition run by the Society run by the Society of Automotive Engineers (SAE). Facilities like lathe, milling, drilling, Power Hacksaw, Bench Grinding machine & tools etc are provided.

Incubation Center in Computer Engineering is also established for Website development in networking concepts, Android application Development, Hardware concepts, IOT Development etc.

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 30

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
16	08	02	02	02

File Description	Document
List of workshops/seminars during the last 5 years	[View Document](#)
Report of the event	[View Document](#)
Any additional information	[View Document](#)

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
List of Awardees and Award details	[View Document](#)
e- copies of the letters of awards	[View Document](#)
Any additional information	[View Document](#)

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 00

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document](#)

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last

five years

Response: 0.35

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
35	59	28	21	07

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document

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

Response: 0.13

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

2016-17	2015-16	2014-15	2013-14	2012-13
09	13	14	14	06

File Description	Document
List books and chapters in edited volumes / books published	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

SSJCET undertakes community based activities by our staff and students through our Student Associations, Women Grievance Redressal Cell, SOCIAL WING etc. and the activities are as follows:

- Value education sessions through enrichment courses on societal awareness to students and staff
- Blood donation Drive

- Awareness about health and hygiene
- Tree plantation drive
- Swacch Bharat cleanliness drives in our campus, railway stations, villages etc.
- Visit to orphanages
- Donation of cloths, books etc to needy people in villages
- Awareness sessions on energy conservations
- Awareness sessions on women health and legal aspects on safety etc.
- Women day celebrations
- Projects on water crisis and conservation, energy conservation, alternate energy etc.

By conducting such programmes students will be motivated to contribute to the society and handle the challenging societal issues etc. it helps in overall personality development, acquiring holistic development, and to become better citizens.

File Description	Document
Any additional information	[View Document](#)

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 6

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

2016-17	2015-16	2014-15	2013-14	2012-13
03	02	01	00	00

File Description	Document
Number of awards for extension activities in last 5 years	[View Document](#)
Any additional information	[View Document](#)

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

Response: 49

3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five

years

2016-17	2015-16	2014-15	2013-14	2012-13
15	11	12	07	04

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 38.29

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
990	674	746	305	78

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 187

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
71	25	54	24	13

File Description	Document
Copies of collaboration	[View Document](#)
Number of Collaborative activities for research, faculty etc.	[View Document](#)

3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 31

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

2016-17	2015-16	2014-15	2013-14	2012-13
13	10	04	03	01

File Description	Document
Details of functional MoUs with institutions of national, international importance,other universities etc. during the last five years	[View Document](#)
e-copies of the MoUs with institution/ industry/ corporate house	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

SSJCET has well established facilities for effective teaching and learning meeting the requirements of AICTE, DTE and UOM. The institute has policy to create best infrastructure for holistic development of the students. The whole campus of institute is clean, green, safe and secure. The College is situated on sprawling 10 acres of lush green campus with total built up area of 16658.53 sq. m. The state-of-the-art infrastructure augments learning and promotes a good teaching-learning environment. College management ensures availability of adequate physical infrastructure considering AICTE norms.

The infrastructure facilities for both UG and PG programs which are well satisfying AICTE Norms are as follows:

- Spacious and well ventilated and well-furnished classrooms are available as per AICTE norms with adequate furniture facilities
- Adequate Tutorial rooms as per norms for completing Assignments, discussion on Projects and seminars
- Every department in the Institute has got well equipped laboratories as per AICTE and university norms. Every laboratory has got enough space and equipments to have active participation of students during the performance of practicals. Charts and Models are also displayed in the Labs for easy understanding of the practicals.
- All faculty members of SSJCET have easy access to computer facility with internet connection in every department and sections. Every department has well equipped and dedicated computing facilities.
- Computer laboratories are utilized for on-line examinations, aptitude tests, project development and competitions for students of the institute, in addition to the conduction of practicals as prescribed in the syllabus by UOM.
- Language Lab is also set up for students to improve their communication skills.
- SSJCET has got adequately equipped Workshop which is available for all the students to complete their project/academic tasks. Students of all the departments utilize resources of mechanical workshop for their projects. College BAJA team "Team Endeavour" uses welding and other machine shop facilities to build BAJA vehicle to take part in competitions held by SAE.
- SSJCET has got well-furnished and spacious Central Library with sufficient number of titles and volumes of books. SSJCET also facilitates well ventilated and spacious reading room for students and faculties with internet facility. Library is equipped with National and International journals, e-journals, e-books, Magazines, Newspapers etc. with a view to cater the needs of our students and staff. Also, provision of digital library with NPTEL videos, National Digital Library membership, reprography facility is also available for students and faculty members. Besides, every Department has got Departmental Library also.
- Training Placement Cell (TPO Cell) & Institute Industry Interaction(III) cell has been established and it facilitates in arranging various training programs, value addition courses, mock interviews, seminars, workshops, group discussions, etc. In addition to these, cell also helps in arranging

- Industrial site visits, guidance to our students to take up Industrial Projects, providing Internships to our students, conducting Faculty Development Programs (FDP) and also helps in entering Memorandum of Understanding (MOU) with industries.
- SSJCET has 2 spacious seminar halls supported with ICT facility and proper seating arrangement dedicated to students and staff development programs. Air conditioned, well-furnished, High Class auditorium with more than 500 seating capacity is also available for arranging various events. These common facilities like auditorium and seminar halls are utilized for conducting value addition activities like guest lectures, training programs, seminars, talks by experts, workshops, Conferences, Orientation Programs, and even Cultural activities and Annual Day celebrations etc.
- Gymnasium with modern amenities is available for access to both staff and students inside the campus
- Hygienic canteen facility is available for all students and staff.
- Other Amenities and facilities such as ramp and lift facility, CCTV surveillance at all strategic locations, Generator, Water Coolers, Girls and Boys Common rooms, Sick and Rest rooms, First Aid facility, Playgrounds, separate Toilets for Men, Women, also toilet for physically disabled person, Sanitary Vending Machine, Fire Extinguishers to guard the safety and security of all students and staff, Doctor on Call on emergency, Solar Back up etc. are available.

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

Response:

Institute gives importance to physical fitness and to practice it in our everyday life, a fitness gymnasium with multi facility and recreation centre has been made available to the students. Sports Activities were established in the year 2009. Institute has a playground with several facilities for games such as Volleyball, Football, Kabaddi, Kho-Kho, Cricket, and Badminton etc. Facilities for indoor games such as Table Tennis, Carom, Chess, Snookers, and Indoor Basket Ball etc are also provided. SSJCET organizes Sports week in the month of January every year during the break between after completion of University Theory Examinations and before commencement of Even Semester in order to avoid the disruption of academics. Active participation of our students and the involvement of staff in conduction is overwhelming.

SSJCET provides infrastructural facility to conduct its Annual Cultural activities. All cultural Events are scheduled well in advance, preferably in the month of February and the schedule is displayed in the Academic Calendar. Every year college organizes Annual Social Gathering named as **'Nakshatra'** by which students get an opportunity to exhibit their talents and skills.

Students will be informed the schedule of Sports and cultural activities well in advance and also displayed in the Institute Academic calendar.

Students are motivated and encouraged to participate not only in events at College level but they also participate in events at intercollegiate competitions conducted by UOM. Institute conducts self Defense training programs for the benefit of staff and students.

Sr.no	Facility	Details of Facilities

1	GYMNASIUM	Latpully/seated row	
2		Leg press/calf machine	
3		Peck deck	
4		Bicep & arm curling	
5		Cross cable combo	
6		Ab low back	
7		Leg extension/curling	
8		Flat bench	
9		Multi bench	
10		Inner/outer thigh	
11		Bench press bench	
12		Incline bench press	
13		Decline bench press	
14		Shoulder press	
15		Adjustable abdominal bench	
16		Hip flexer	
17		Roman chair	
18		Crunch bench	
19		Deeps stand	
20		Twister	
21		Gym ball (medium big size) 1. Medium 65 cm 2. Large 85 cm	
22		Dumbel stand 3 steps	
23		Dumbells (rubber hex) 420 kgs	
24		Loose weight (rubber wt.plate)	
25		Weight rack tree types	
26		Bar 4", 5", 6" , 7", e/z	
27		Bar rack 1	
28		Elliptical trainer	
29		Spinning bike	
30		Upright bike	
31		Crazy fit machine	
32		E-glide spin bike	
33		Commercial treadmill	
34		Exercise ball	
1	SPORTS	Volleyball	
2		Kho kho	
3	(OUTDOOR GAMES)	Kabaddi	
4		Badminton	
1	SPORTS (INDOOR GAMES)	Table tennis	
2		Chess	
3		Carom	
4		Snooker	
1	CULTURAL ACTIVITIES	Dance	
2		Singing	
3	(NAKSHATRA)	Antakshari	

4		FashionShow	
5		Mimicry	
6		Instrumental Playing	
7		Photography	
8		Glow Cricket	
9		Rink Football	
10		Creativity	
11		One Minute game	
12		Poster Painting	
13		Mehndi	
14		Rangoli	
15		Treasure Hunt	

SSJCET also celebrates International Yoga Day, Traditional day, Navratri festival, Freshers program, Farewell Function for Final Year students, etc.

Seminar Halls and Auditorium are being used for conducting all cultural events. These activities not only help to showcase the students' talents but also to improve the overall personality and multidimensional qualities.

File Description	Document
Any additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 31

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 28.65

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
140	140	140	140	140

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

SSJCET has got a very spacious library with sufficient titles and volumes of books, International and National Journals print Journals, e-journals, e-books, etc and also got NPTEL online courses and study materials. SSJCET library is also the member of National Digital Library (NDL) and other learning materials and technology aided learning mechanisms enable students to acquire information, knowledge and skills required for their study programs.

The faculty members and students are made aware about the use of the reference books, other useful books and digital library through notice and circulars. Excellent environment has been provided for students as well as staff members of SSJCET.

- Library is using software called SLIM21. It is a user Friendly software developed to work under client – server environment.
- The Library is installed with sufficient number of computers and having all specifications for e-learning to meet the requirements of student and faculty.
- The Library is having 17100 Volumes and Titles 4800.
- Library also has collection of CDs/Audio/Videos for the use of Students.
- Library is procuring several national and international journals, daily newspapers, Periodicals etc, on regular basis.
- The library is accessible to national as well as international e-journals including IEEE, ASME, ASCE, Springer, Knimbus and also has facility to access NPTEL videos.
- Reprography facility is available in the Library.
- In every semester requirement of books is taken from the students & faculties of all department and books are procured accordingly.
- The Library timings are 09.00 am to 05.00 pm from Monday to Saturday and during exam library is open till 07.00pm.
- The Library is closed on Sundays and Public Holidays. However, the Library is opened on all Sundays & Public Holidays during examination period. All the students and faculty are communicated about this, well in advance before commencement of the examinations.
- Library is also having the Institutional membership of National Digital Library (NDL).

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Various rare books from Rare Book Society of India (RBSI) http://www.rarebooksocietyofindia.org have been downloaded. The collections are stored in library computers and are accessible to the students and faculty as reference material for enrichment of their knowledge.

The collection of editorials and important articles from all the national newspapers are displayed in the library to enrich the General Knowledge and Current Affairs to students.

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 13.36

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

2016-17	2015-16	2014-15	2013-14	2012-13
12.5	12.7	12.4	17.4	11.8

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	[View Document](#)

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	[View Document](#)

4.2.6 Percentage per day usage of library by teachers and students

Response: 22.64

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 302

File Description	Document
Details of library usage by teachers and students	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

SSJCET has got good computing facility with total No. of 413 machines including both Computers and Laptops. These are distributed among all Departmental and administrative staff.

There is a Computer Center with 60 PCs, a specialized Language Laboratory and Separate P.G. Lab with 20 PCs in each branch for our P.G students.

There are high end machines in the Library and it helps the students to browse the National and International e-journals. It helps teaching fraternity to update their knowledge to have effective teaching and also to improve quality teaching.

Wi-Fi facility in SSJCET helps students in academics and co-curricular & extracurricular activities.

Administration office is equipped with adequate computers, providing efficient service to students and staff. in addition to these LCD projectors, Printers, Scanner and CCTV etc. are also available.

Computer-Student ratio: 1: 2.98

Standalone facility: Yes, available

LAN facility: Yes, available

Wi-Fi Facility: Yes, available

Internet bandwidth: 52 MBPS

Details of Licensed software:\

Department	Software Name	Purchased On	Renewed On	Validity
Computer	Microsoft	31/08/2015	20/03/2017	01Yr
	Windows 8.1	30/12/14	30/01/15	03 Yrs
	Internet Lease Line	8/11/11 – 10Mbps	1/04/16 – 32Mbps	
Mechanical	Catia	25/1/14		Lifetime
	Abaqus	30/09/14		Lifetime
	Autocad	2009		Lifetime
	SolidWorks	03/02/11		Lifetime
EXTC	Proteus	14/09/09		Lifetime
Civil	Primvera	2015	2016	
	Stadpro		2018	License
	ETAB		2018	Educadd
	Autocad		2018	
Exam	VIVA	Aug 2015		Lifetime
Library	SLIM 21	Oct 2011	July 2017	01 Yr

Any other: LCD projector, CC TV.

IT infrastructure: Details on the computing facility available (hardware and software) at SSJCET.

All faculty members of Institute have easy access to computer facility with internet connection in every Department. Every department has well equipped and dedicated computing facilities. 52 Mbps (1:1) Internet leased line connection is available. Central Library has internet facility for faculty and students.

Routers and switches (gigabyte) are made available for internet connectivity sharing in labs, seminar halls office sections.

Multimedia resource materials like NPTEL video lectures, PPTs. etc. are available

4.3.2 Student - Computer ratio

Response: 2.98

File Description	Document
Student - Computer ratio	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 57.91

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

2016-17	2015-16	2014-15	2013-14	2012-13
261	282	272	326	281

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)

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:

Maintenance Procedure: The Maintenance is divided as daily maintenance and semester end (Half yearly). Apart from this the Break down maintenance is also followed. Broadly classifying the equipment in the college of engineering we follow above method of maintenance.

For cleaning all places, contract is given to Housekeeping and is done with the help of non-teaching staff on daily basis.

Daily Maintenance: The Lab in-charge is responsible for daily maintenance of lab equipments/Machines/Instruments.

Half yearly or semester Maintenance: At the end of the semester all the equipments/Machines/Instruments are checked as required for the next semester.

Break down Maintenance: In case of any equipments/Machines/Instruments occurs the break down, a written information is given to the Principal. With permission of the Principal, concerned supplier is contacted by the HOD and the quotation is submitted to the Principal. The Principal sends the quotations to the head office for approval. After receiving approval from the head office Work order is given to the concerned and work will be executed.

Computer Maintenance: Daily Maintenance is done by the lab in-charge. In case of Break down Maintenance the HOD will contact the supplier and the quotation is submitted to the Management through Principal. After getting approval, work order is given to the concerned vendor and the work will be executed at the earliest.

Library Maintenance: The Librarian is in-charge of the library. The requirement of books, journals/newspapers etc. is sent to the Management through Principal if any Maintenance is required.

Sports /games articles Maintenance: The sport in-charge sends the request to the Management through Principal. After the approval required Maintenance is done. Regarding the articles for Sports/games, students will contact sports in Charge and it will be issued through Sports in charge..

Classrooms Maintenance: The class room comes under the daily Maintenance. The administrative staff

i/c takes round of all the class rooms. In case of any Maintenance such as lights, fan, bench etc will be attended by the administrative staff i/c and in case any issue, it is reported to Principal. Principal takes suitable action very soon in consultation with management.

Physical Utilization procedure: Certain laboratories /Workshop are required to be shared and utilized under common facilities. Such facilities are shared between different Departments. At the beginning of the semester the Time Table in-charge will resolve this issue. In case for a particular occasion if any infrastructure is required, requirement will be communicated to the Principal and permission is to be taken from Principal.

Library physical utilization: The facility is available to all the students and staff. Librarian takes care of issue and return of the books, the utilization of computers, the entry and leaving of all staff and students are recorded in the Register kept in the Library, maintained by Librarian.

Seminar hall utilization: The seminar hall requirement for any Department will be intimated to Principal and the permission is given by Principal.

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 the last five years

Response: 55.87

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
787	855	874	899	782

File Description	Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 0.03

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	1	1	0

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

　　1. For competitive examinations
　　2. Career counselling

3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	[View Document](#)
Any additional information	[View Document](#)

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 5.73

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

2016-17	2015-16	2014-15	2013-14	2012-13
99	134	81	62	50

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	[View Document](#)

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 7

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
190	78	142	59	40

File Description	Document
Details of the students benifitted by VET	[View Document](#)

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Details of student grievances including sexual harassment and ragging cases	[View Document](#)

5.2 Student Progression

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

Response: 25.87

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

2016-17	2015-16	2014-15	2013-14	2012-13
99	134	81	62	50

File Description	Document
Details of student placement during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 1.91

5.2.2.1 Number of outgoing students progressing to higher education	
Response: 07	
File Description	**Document**
Any additional information	
Details of student progression to higher education	

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

Response: 100

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
06	08	01	03	01

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
06	08	01	03	01

File Description	**Document**
Number of students qualifying in state/ national/ international level examinations during the last five years	

5.3 Student Participation and Activities

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

Response: 7

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
03	01	02	01	00

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document](#)
Any additional information	[View Document](#)
e-copies of award letters and certificates	[View Document](#)

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

Response:

The selection of student council members is made every year as soon as possible after the commencement of the academic year on the date as may be prescribed. Approximately 13 – 14 students from different departments form the student Council.

The student Council consists of following members

- Student Council Head
- Cultural Head
- Cultural coordinator
- Technical Head
- Technical coordinator
- Girl's Representative
- Council Members

The Executive Committee comprises of advisors from the Management , faculty & students of all classes & across the entire discipline.

The Executive Committee organizes & executes various events during the academic year. With the help & co – ordination of all faculty members & students. The Executive Committee organizes Cultural , Sports & Technical festivals & various activities. Throughout the year the council host & arrange three events:

- Cultural Fest (NAKSHATRA)
- Tech Fest (TechBlizz)

- Annual Sports

The Council strives to make all the above events memorable for every student & faculty.

The student Council members strive to " go out" in everything they do. They always try to create an environment in which every student can nurture themselves. They take enough efforts to ensure that every event organized during the academic year should be the truest possible reflection of the essence regarding the event.

They also try to make sure   that the Tech Fest organized by our college is the biggest celebration of every Engineer's mind & talent.

The Council seeks to contribute to the development of student's leadership skills &   have experience in program planning & development , volunteering & financial management.

The Council takes adequate steps to ensure innovation & modernization of the college along with tackling problems faced by the students. They help the administration in smooth conduct of student activities in the Campus. The   Council also organize programs in the   Campus to improve cleanliness & greenery in the campus.

The mission of student Council is to encourage & promote values that represent good character in all the students, build responsible leaders within the student community and develop social responsibilities.

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 21.2

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
23	24	23	17	19

File Description	Document
Number of sports and cultural activities / competitions organised per year	[View Document](#)
Any additional information	[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

SSJCET has constituted Alumni Association which helps the students and the Institute to stay connected with the Alumni. All the passed-out students of the college are active members of the Alumni Association. Alumni members are spread all around the world. SSJCET organizes the reunion event for the Alumni yearly formal and informal interactions wherein any alumnus is free to give their suggestions.

Alumni guides students for preparation related to Training and Placement, competitive exams, opportunities of jobs in various sectors, entrepreneurship etc. also they help to organize seminar, workshop, guest lecturers to give industrial exposers about current requirement of industries.

As the Institute is young and in developing stage, the size of the Alumni is still in growing stage. The financial contribution to the Institute from the Alumni is almost negligible.

SSJCET felicitates Toppers from previous batch of all branches to motivate students. Alumni committee gives references for Internships, Training, value added courses, & Placement. Alumni not only guides the students to appear for Interviews but also help to know the job vacancy if any, in which Company/industry they are working.

The association helps in building up the network of the alumni and helps in planning resource persons for seminars, workshops and helps in the placement process for the students.

Head of Departments maintains regular contacts with the Alumni, to network and collaborate.

5.4.2 Alumni contribution during the last five years
<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document](#)
Any additional information	[View Document](#)

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 4

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

VISION:

Grounded by value centred education, research guidance and services to become a leading centre for professional courses; recognized nationally and internationally for its excellence.

MISSION:

- To educate and nurture students, to create knowledge
- To provide service to our industry and society
- Committed to excellence and strive to develop future leaders of our nation & world
- To provide opportunities to reach excellence and enable the students to develop their inner potential

SSJCET is committed to provide quality education along with moral values to the students. The management of SSJCET plays important role to provide excellent infrastructure facilities and healthy teaching and learning environment to the faculty and students in order to implement the quality policy and plans. Principal, HODs and faculty take care while implementing the policies and plans to the satisfaction of all the stakeholders. Management is proactively encouraging and motivating faculty and staff for overall development of the institute.

The institution is working under the legal frame work of the AICTE, DTE and the University of Mumbai. The vision and mission of the institute have been decided with the active participation of alumni, industry people, employers, parents, faculty members and guidance of experts from various fields.

Principal provides academic leadership and try to percolate the qualities of leadership among HODs and faculty. The HODs and faculty members are actively involved in decision-making process through various committees. All the decisions and policies to improve academic activities are reviewed and discussed during the meetings before implementation. Therefore, HODs act as representatives of the faculty who are involved in the institutional decision-making. The vision and mission are communicated to the Stake holders and displayed at various locations in the institute.

For effective academic and non-academic work various committees like IQAC, Anti-ragging, ICC/WDC, SC/ST/OBC/Minority Cell etc are formed as per guidelines prescribed by statutory bodies. For effective teaching-learning process, Management motivates faculty members to attend various FDP programs, Seminar, Training and Workshops etc.

SSJCET leadership understands the needs of the society through its interactions with various Industries/organizations in order to enhance the employability of students. It also receives regular feedback from students, parents and alumni to frame plans. The management fully supports new plans for the benefits of its stakeholders. Based on the employer's feedback about the students placed in the preceding years, the students are given additional training in the areas for improvement.

6.1.2 The institution practices decentralization and participative management

Response:

SSJCET encourages decentralization and participative management. For this, various committees such as GC, LMC, IQAC, WDC/ICC, Anti-ragging, Grievance redressal Cell etc. are formed. These Committees comprise of faculty, administrative staff, stakeholders supported by the management which formulate policies aligned with the institute's vision and mission. The management encourages committee members to express their views and give suggestions for the development of the institution. These committees meet often, discuss the related issues and take appropriate decision with respect to the requirement. Decentralization of administration helps in bringing transparency and empowering the staff in various decision making at Departmental level or representing their views through the committees. This enables creating an atmosphere conducive to active participation.

Case Study:

This case study explains the conduct of university examination. As soon as time table issued by University, Principal who is chief conductor of exams convenes meeting with Exam In-charge and heads of department to finalise the appointment of Senior/Junior /Understudy supervisor, Committee members of Internal Vigilance squad, Question Paper Printing, Control room staff for seating arrangement, coding, masking etc. Various committees like Internal/External CAP, and appointments to various posts required for smooth conduct of exams. Exam In-charge prepares duty chart for all activities and issues appointment letter to all exam related committee members. Exam In-charge informs staff about the procedure and guidelines regarding rules of conducting university examination. Staff members are required to give in writing in case he/she has to adjust their duties also provide replacement of the duty. On exam day, senior supervisor delegates/assigns duties to junior supervisors, relievers and assigns them examination blocks as per duty chart already prepared. Senior supervisor is responsible for smooth conduct of that particular exam. Junior supervisor who is invigilator of examination block allocated, gives instructions regarding the details to be filled on answer book and ensures that students maintain discipline. In case of complaints from students regarding any ambiguity in question paper, junior supervisor informs senior supervisor who in turn contact university for confirmation. The reply received from university is promptly conveyed by senior supervisor in all examination blocks. The internal vigilance squad takes surprise rounds to ensure that the examinations are going on without any malpractices. It is the responsibility of junior supervisor to collect the answer books and hand over to senior supervisor as soon as exam is over. The answer books are properly counted and sealed and handed over to university official/ Internal Cap under supervision of senior supervisor.

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The Institute has a perspective plan for development and it is developed by Principal with the help of HOD's and senior staff of various departments under the guidance of LMC&GC. Based on the academic

schedule given by UOM, Institute academic calendar is prepared. The academic calendar includes Term commencement, term end, UT schedule, University examination details, the list of pre- planned programs. To ensure development of the Institute, all the planning and execution is monitored regularly.

Perspective plan of the institution:

Sr. No	Plan	
1	To obtain accreditation from NAAC , NBA	
2	To further strengthen infrastructure time to time to meet the growth requirements.	
3	Establish an effective R&D cell and strengthen the culture of research	
4	To start PG programs in all branches	
5	To have more VAPs	
6	Improving the number of MoUs with industries	
7	Tie-Ups and Exchange programs with Industries	
8	To strengthen student placement in national and multi-national companies	
9	Establish Centers of Excellence in various technology domains	
10	Establish Incubation Centers	
11	To conduct STTP, FDP in important areas and to promote faculty participation.	
12	To serve the society through programs like blood donation camps, NSS, health check, cleanliness dri	

The quality of students taking admission at entry level is average. They also lack soft skills and shy at nature. Lot of efforts are planned by IQAC to provide soft skill, personality development programmes, English speaking training, aptitude courses and technical courses for students to improve their employability chances. The students need training in latest professional softwares. The centre of excellence (COE) in collaboration with Educadd is established at college to serve this purpose. The softwares available at centre include Autocad, Staad- Pro, Etab, Catia, Ansys, Primavera, Solidworks etc. The centre remains open on all working days. The centre provides value addition programs (VAP) on softwares recently adopted in industries. Students and staff can also take up consultancy projects in collaboration with various industries through COE. Undergraduate and postgraduate students can avail the facility of COE.

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The institute is functioning based on the organizational chart as shown in figure 6.1. Decision will be made by Governing body and disseminated by principal, HODs and Committee in-charges.

Governing Body formulates policies and directs the affairs of the institution in partnership with the management. It has representation of the management, faculty, government representatives and industry**.**

 Local Managing Committee is constituted according to the Maharashtra Universities Act of 1994 at the college level. It has representatives of the management, faculty and nonteaching staff. The Principal of the college heads both the academic as well as the administrative sections and is overall in charge of the college. Heads are appointed to assist the Principal in effective functioning of the institute. Various

sections like central library, Training and Placement cell, Examination cell and administrative section support the academic programs. The decentralization of power is evident from the structure.

File Description	Document
Any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document
ERP Document	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

SSJCET constituted various committees and cells such as Anti Raging Committee, SC/ST/OBC cell, Internal Complaint Committee, Women Grievances Committee, Women Development Cell, Training & Placement cell, Local Managing Committee (LMC), Governing Council (GC) etc., for effective day-to-day functioning of the Institute. The proper and effective functioning of these committees is evident through various minutes of meetings and implementation of the issues raised in the meetings.

A meeting of LMC was held on 05/02/2017 and discussed the following points like Result Analysis, Co-curricular and extracurricular activities, value addition programs etc during meeting. Principal has explained about IQAC formation and its objectives and functions. To strengthen Industry Institute Interaction Management has advised to have more tie ups with various industries by executing MoU's. Several MoU's have been made with the objectives of providing VAP, Internship, career counselling and soft skill etc for students. SSJCET has made MoU with Veermata Jijabai Technological Institute (VJTI), Mumbai, which is selected as a Mentor Institute by AICTE, under Margadarshan (Mentor- Mentee)

scheme, which provides a facility of attending all FDPs conducted by mentor institute. Many faculty members have been benefitted by attending FDPs conducted by VJTI. A proposal has been sent for approval for organising FDP at our institute under Margadarshan (Mentor- Mentee) scheme. It was decided to establish Centre of Excellence, incubation centre, entrepreneurship cell, skill development centre etc to have a better learning environment for our students.

During the meeting of LMC held on 12/06/2016, it was decided to identify weak students in respective subjects and improve their performance by giving more exercises in respective subjects for improving their academic performance. Remedial/extra classes for the weak students have been conducted in the subjects like Mathematics, Thermodynamics etc.

During the meeting of LMC held on 05/07/2015, it was proposed to organise one-week ISTE-STTP in the academic year 2015-16. This has been implemented by conducting one-week STTP on "Application of MATLAB in Engineering & Technology" from 30th May to 05th June 2016 under the banner of ISTE.

Hon. President briefed about the features of newly built auditorium and gymnasium. It was decided to inaugurate the Auditorium and Gymnasium in the month of November 2015.

Principal informed about the formation of various committees like Academic Council, Time table committee etc. for bringing more systematic and better quality in teaching-learning process.

It was decided to conduct centralised Unit Test both UT I & II in the same pattern of University Examination. This has been implemented since AY 2015-16.

6.3 Faculty Empowerment Strategies

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

Response:

The following service benefits and welfare measures are provided to the teaching and supporting staff of the college:

Teaching and Non-Teaching staff:

- Employee Provident Fund
- Gratuity facilities
- Casual Leave/Compensatory Off / On Duty leave/Medical Leave
- Maternity leave& extended maternity leave if required
- Summer & Winter Vacation
- Sponsorship for higher education like M. E. and Ph. D.
- Allowance for attending Conferences/STTP/FDP
- Emergency loan facility and Festival advance
- Health care

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: 5.82

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

2016-17	2015-16	2014-15	2013-14	2012-13
09	03	07	02	03

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	[View Document](#)

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: 9.6

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	17	05	11	05

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	[View Document](#)
Any additional information	[View Document](#)

6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

Response: 83.92

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
77	88	90	66	33

File Description	Document
Details of teachers attending professional development programs during the last five years	[View Document](#)
Any additional information	[View Document](#)

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

There are different parameters to be considered for the self-appraisal. For appraisal purpose, institute will give opportunity for the self-appraisal and collect feedback from the students for the concerned subject which faculty handles. The performance appraisal system consists of self-appraisal and appraisal by reviewing officer.

Performance appraisal system contains the information regarding Teaching, learning and evaluation related activities, Performance in technical work and administration related activities, co-curricular/extracurricular, extension activities, professional, development related activities, academic contributions, general conduct and qualities, aptitude etc. Every faculty member submits a performance appraisal, designed to capture the performance in all spheres, academic or otherwise.

The performance appraisal is divided into three categories:

- Part I is Self-Appraisal Report submitted by each faculty, providing information regarding the subjects taught, leave taken during semester, Duties carried out other than teaching during the semester, No. of publications done during the semester with the details, no of seminars/workshops/conferences/FDPs attended etc., No. of projects guided, any other achievement during the semester etc.

- Part II contains the review and remarks by the concerned HOD with the details of the contribution at Departmental, Institute & University level.

- Part III is the scrutiny done by the administrative staff and the final remark by Principal.

Vigilant scrutiny of appraisal reports helps in analysing the performance of the faculty/staff. The best part of the Performance Based Appraisal System is that each faculty becomes aware of the areas of improvements.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The college has an effective mechanism for auditing the accounts. The accounts of the college are audited by chartered accountant regularly as per the Government rules.

External auditor is appointed by the trust who executes the statutory audit. Last audit was carried out in the month of October 2017. No major irregularities were found in the audit.

In addition to this, internal audit of all the Accounts are carried out by HO staff. Registrar also occasionally checks accounts to see that things are running smoothly.

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

Response: 0

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)

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

Response:

As SSJCET is a self-financed institute, Fee collected from the students is the main source of income for the Institution. This income is utilized for meeting routine Salary and non-salary expenses. Budget allocation covering all the departmental and institutional expenses is done well in advance for every academic year. Reserve fund & corpus fund are maintained by Vighnaharata Trust as per the rules and regulations for charitable trusts as laid down by the charity commissioner. Any shortfall/deficit is managed by taking

assistance from the Trust.

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 has been formed for smooth functioning of academics and activities other than academics. It helps to ensure quality education as per the recommendations issued by statutory body. It also takes care of regular maintenance of the laboratories, various activities at the departmental and institution level. IQAC continuously checks all the academic parameters and instruct staff to improve or to include content beyond syllabus that will in help teaching learning process.

The cell is working effectively for the overall quality improvement of the process system. The institute has well defined policy for the quality assurances which is ensured by the effective participation from all the stakeholders.

Following decisions of IQAC have been approved by management for implementation and few decisions are already implemented and suitable steps are being planned for others.

- To obtain accreditation from NAAC, NBA
- Academic monitoring, updating/upgrading the Laboratories, review of teaching-learning process etc.
- To enhance the number of MoU's with industries and scope of activities
- Special training programs for students to improve communication skills, leadership qualities, etc.
- To conduct Value Addition Programmes to get to know about the recent developments in industry, to inculcate research and to create opportunities for employability
- To set up Entrepreneurship Development Cell/Skill Development Centre
- Developments in sports activities, Gym, yoga centre and improving participation of students.
- Establishment Centre of Excellence imparting software training.
- To conduct STTP, FDP in important areas and to promote faculty participation.
- To serve the society through programs like blood donation camps, NSS, etc.

Following are the examples conducted as per recommendations of IQAC

1. Academic monitoring and audit

SSJCET Academic calendar plans the smooth schedule of all activities, like UT, co-curricular& extracurricular activities, during the semester for effective teaching-learning process. Centralized UT, transparency maintained in the UT conduction as well as the on-time result declaration help the students to perform better in ESE as both UTs are being conducted according to the University pattern. Based on the students feedback necessary actions are suggested to concerned faculties. Mentorship scheme helps students to discuss and attain the personal traits in the learning through individual discussion with Mentors. This has also helped a strong bond between students and faculty members.

2. Quality improvement program for staff and students

- Staff are permitted to attend various FDP enhancing the quality of teaching learning processes. SSJCET has also conducted FDP to improve the academic performance of stakeholders.
- Encouraging and sponsoring the Faculty members to attend STTP, Workshops and Conferences and sponsoring by the Institute and also to publish journal/conference papers at National and International level.
- Dedicated IIIC for practical on-site training/industrial visits/seminars for students and faculty. MOUs have been made with different organizations to conduct various activities in collaboration with these organizations and to make our students market ready.
- Students are sent for internships during the vacation.
- Centre of Excellence has been set up to conduct VAP.
- IQAC encourages students to participate in various National /International conferences, Technical festivals and to attend skill development Training programs.

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

Response:

Review of teaching learning process is taken at regular interval and improvements if required are implemented to make system more efficient.

Principal, Heads and academic coordinators of the departments take continuous review of teaching learning process in the institute. The teaching learning process comprises of semester planning followed by conduct of lectures/practical /tutorials, conduct of UT. The monitoring and control of teaching learning process is aligned with academic calendar. Technical seminars, industrial visits are conducted to improve technical skills of students.

The review of teaching learning is done in the following manner:

- Preparation of academic calendar before the commencement of term.
- Subject allocation by HODs considering the choices by faculty.
- Preparation of Departmental time table including Master time table, semester wise timetable, classroom time table , laboratory time table, individual time table and teaching load of each faculty, Teaching plan and progress of teaching based on academic calendar.
- Innovative, digital teaching-learning and working environment in college.

- Implementation of Mentor scheme for improvement of teacher student interaction.

- An academic audit is done by the Inter-Department Academic Audit Committee. The audit is conducted by visiting departments to review the functioning and involvement of teachers in academics, co-curricular and extracurricular activities.
- Centralized UT and transparency maintained in the conduction as well as result declaration.

- Student Feedback in each semester
- Result Analysis at the end of each Examination

To improve the academic performance of the students the staffs are motivated to attend various faculty training, workshops and industrial visit.

Two examples:

1. Extra classes for non- performing students

Based on results of first unit test, weak/slow learners are identified.Extra guidance is given to the students by the teachers concerned during the remedial classes. Parents of such students are also contacted and advised. Mentors maintain regular contact and monitor their progress.

2. Internship /project based learning and conducting VAP

IQAC recommends internship /project based learning to improve the employability of students. Internship or project based learning gives a real life exposure to students and they are able to interact with field persons. Students have been given opportunities to carry out project-based learning at industries. This has helped to improve teaching learning process.

In order to bring industrial exposure in SSJCET, IQAC has recommended to conduct VAP by inviting people from industry to deliver talks or conduct workshops or to share their professional experience. Accordingly, series of some guest lecturers were conducted.

Industrial Visits have also been organized to visualize the practical applications of technology. Students participate in such events with great enthusiasm and they organize such events under Students Associations of respective Department. Value addition training programs on various softwares which are recently adopted in industries are also being conducted.

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 5

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
25	0	0	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: C. Any 2 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	[View Document](#)
Any additional information	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

Year	Initiative	
2012-13	1. Signing MoUs with industry and training institutes for better placement 2. Institute PRIZES for first three toppers of each program 3. Encouraging the students and faculty to go for industrial training 4. Institutional Membership of ISTE and IETE	
2013-14	1. Meetings with industry people to enhance industry – institute interaction 2. INTERNAL AUDIT	
2014-15	1. Master Programme in Civil and Mechanical Engineering 2. Appointments of higher qualified staff 3. e-journal facility for library	

2015-16	1. Inauguration of ISTE and organized STTP under the banner of ISTE. 2. Student participation in SAE-BAJA competition. 3. Inauguration of State of the Art auditorium and gymnasium. 4. MOU with EDUCADD to conduct VAP in various Softwares. 5. Software for exam section 6. SSJCET became NPTEL Local Chapter 7. Soft skill courses like Personality Development, Career Counseling etc. for improving e students. 8. Conducted Guest lectures /industrial visits 9. Implemented Centralized Unit Tests I&II 10. Established Academic Council with Overall Academic Coordinator and Departmental A Coordinator for academic monitoring 11. Established Timetable Committee with Overall Coordinator and Departmental Coordina 12. Installed Solar panels and started functioning to generate power 13. Renovation of Laboratories of Civil Engg Department	
2016-17	1. Use of e-resources like NPTEL, spoken tutorials etc. 2. Students and staff attended online NPTEL courses and got certificates 3. Conducted Soft skill courses like Personality Development, Career Counseling etc. for i employability of students. 4. Got Institutional membership of NDL 5. Registered for Spoken Tutorials under SWAYAM-MOOCS 6. Established IQAC to ensure quality in teaching-learning process and started working as NAAC Accreditation. 7. Introduced Social Wing to conduct various programmes on social, gender, environment 8. Improved the number of MoUs with industries 9. Internships for students during summer vacation 10. Dedicated Computer lab for our PG students 11. Renovation of Seminar Halls 12. Students from first batch of P.G course got M.E degrees	
2017-18	1. Conducted FDP on Accreditation 2. Submitted IIQA Report to NAAC 3. Established Centre of Excellence (COE) 4. Established Skill Development Cell 5. Use of smart classrooms by Faculty 6. Increased Internet speed to 52 mbps 7. Renovation of Staff cabins 8. STTP in Civil Engineering on " Recent Advances in Repairs & Strengthening of Structu 9. Planned FDP on " Energy Scenario in India & Energy Audit" under Margadarshan Sche	

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 11

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
03	03	02	02	01

File Description	Document
Any additional information	[View Document](#)
List of gender equity promotion programs organized by the institution	[View Document](#)

7.1.2

1. **Institution shows gender sensitivity in providing facilities such as:**
   1. **Safety and Security**
   2. **Counselling**
   3. **Common Room**

Response:

(a) **Safety and security**:

The following steps are taken for Safety and security:

- Security is provided to all our students and staff round the clock by the security guards not only in our Institute SSJCET but also in the whole campus of Shivajirao S Jondhle knowledge Centre till they leave the campus. CCTV cameras are installed in various places as a part of security system.
- All students are issued ID cards and checked by Security at the entry point and also all staff also are vigilant and do ensure that student wear ID cards everywhere and all time if they are in the campus. Outsiders are also checked by security and records their details before entering the campus. Parking space is provided for all vehicles very near to main gate near the security cabin and they are not allowed the beyond the parking space.
- SSJCET provides safety and security for all students by providing spacious classrooms /laboratories with good and proper ventilation, wide passages, staircases, etc.
- All classrooms with a real mix of boys and girls provide a healthy way of interactions among Boys

and Girls. Projects are also taken up by students with a mix of Boys and Girls.

- All committees for various activities also includes both Boys and Girls as well as Gents staff and Ladies staff where they do interact in healthy way to carry out their responsibilities and duties.
- SSJCET promotes gender equality by encouraging the students to participate in all Co-Curricular and Extracurricular activities. Students do participate in all events which teaches them to respect each other and maintain dignity and discipline.
- Cultural festivals like Traditional Day, Navratri festival, and Freshers' Welcome party etc. are being conducted which also create an awareness and make the students to understand the gender equality.

(b) Counseling:

SSJCET has also provision of Counselling the students as and when required.

Counseling is helpful areas such as:

- Smoking Habit ,
- Adjustment issues, with friends, in society etc.
- Anxiety/ Depression/anger
- Communication
- Eating disorders
- Sexual orientation
- Grief
- Relationship violence and physical abuse
- Sexual assault
- Stress management
- Trauma, etc.

(c) Common Rooms:

- Students are having spacious Common Rooms for Boys and Girls separately. These common rooms for boys and girls are also cleaned daily and maintained hygiene very well.
- Separate Toilets for boys and Girls are also provided in each floor with sufficient water facility. Sanitary Vending machine is installed in the Girls/ladies Toilet.

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 46.29

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 25874

7.1.3.2 Total annual power requirement (in KWH)

Response: 55892

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	<u>View Document</u>

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 100

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 24863.90

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 24863.90

File Description	Document
Details of lighting power requirements met through LED bulbs	<u>View Document</u>

7.1.5 Waste Management steps including:
• **Solid waste management**
• **Liquid waste management**
• **E-waste management**

Response:

Solid and Liquid waste Management:

- Dust bins are provided in the campus for waste disposal and segregation and help in segregating the waste very efficiently.
- Composting is done by segregating wet and biodegradable waste generated in the campus such as canteen waste and dry leaves, is centrally dumped in an excavated trench and allowed to decompose. Compost generated is used as manure.
- All liquid waste from washbasins, laboratories, toilets etc. are properly disposed.

E-waste management:

E-Waste consists of discarded computers, office electronic equipments, electronics devices, printers etc. which are not repairable.

- The e-waste is collected and the same is disposed to the local vendor who takes it for recycling of e-waste.

- Adequate care is taken to maintain the electronic components to use maximum through appropriate upkeep and by carrying out repairs as and when required because most of the parts are recycled and throwing in the solid waste does not yield benefit.

- We educate our students for the importance of e waste management.

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

All the buildings of the institute are well planned to tap Rain water by providing rainwater pipes from roof tops and harvested effectively by recharging ground water through bore well pits. This facility helps in maintaining and improving the water table.

There is a well in the campus. The rain water is pushed into the well through gravity flow in the rain season. This also helps in rain water harvesting. The land in the campus is not hard rocky but it is a soft sand which absorbs the rain water. Recharging ground water method of Rainwater harvesting has been adopted in our institute.

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

- **Bicycles**: The campus has most favorable road for bicycle ride and Bicycle stand is also available. Students from nearby villages use bicycles to reach SSJCET.

- **Public Transport:** Though SSJCET has its own bus available but the service is not required as many public transport such as buses, auto-rickshaws, vans etc. are available for students and staff. SSJCET is situated very near to Asangaon Railway station hence public transport or pool vehicles are easily available, from all nearby villages and there is official stop in-front of our campus.

- **Pedestrian friendly roads**: The campus has got wide road and inbuilt footpath. Institute has pedestrian friendly roads around the campus without any vehicle movement within the Institute.

- **Plastic free campus**: Junk foods are not served within the campus, and food is served in plates.

Cups and paper glasses are used in canteen.

- **Paperless office:** Most of the messages, notices, and information are being circulated through SSJCET Mobile app, some through Whatsapp or Facebook, to minimize the paper usage, promoting the consciousness towards environment.
- **Green Landscaping with trees and plants**: The whole campus with fully grown trees and plants with good landscaping provide adequate green cover and excellent environment.

File Description	Document
Any additional information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 2.23

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
16.70	15.88	00	12.60	9.60

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	
Any additional information	

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
01	01	01	01	01

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 6

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
03	02	01	00	00

File Description	Document
Details of initiatives taken to engage with local community during the last five years	View Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

7.1.13 Display of core values in the institution and on its website

Response: Yes

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 15

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

SSJCET   diligently follows and practices all prominent national and state functions.

To inculcate traditional values we celebrate Navratri Festival, Guru Purnima etc. To show the affection and respect towards the great Indian Personalities, on 12th January Youth Day on Vivekanada's Birthday, 14th April Ambedkar Jayanti, 5th September Teachers' day on Dr S Radhakrishnan Birthday,   15th September Engineers day on Visveswaraya's Birthday, 2nd October Gandhi Jayanti, Shivaji Jayanti etc. are also celebrated. In addition to these Maharashtra Day, Independence and Republic Day, Punya Thithi of our Founder on 24 January, etc are also celebrated. Blood donation camp on 24 January, cleaning drive, Swacch Bharat Abhiyan, Distribution of books in schools, cleaning drives in villages, railway stations, visit to orphanages and spending quality time with the inmates, etc are being conducted to inculcate the human values and ethics in our staff and students.

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Institute maintains complete transparency in all financial activities such as fees collection /salary distribution, payments, purchase of Equipments/materials, raw material for laboratories/consumables etc. DD/Cheque is accepted from students for fee collection.

Feedback collected from the stakeholders and acting on the same is an effective mechanism to ensure transparency and effective management.

Curriculum and Examinations are strictly adhered to rules and regulations of UOM. Internal assessment (UT) is being conducted in a centralized manner and the marksheets are displayed on the notice boards, answer sheets are shown to each student and takes his/her signature.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice–I

1. Title of the Practice

Green Energy using Solar Photovoltaic (PV) Plant

2. Objective of practice

- To identify solution for energy demand and load shedding.
- To identify feasibility of project
- To provide evidence of practice

3. The context

- Load shedding and high energy demand were two main challenges faced during working hours.
- So, it was planned to install Solar Photovoltaic panels as alternate source of energy to meet the demand and to overcome load shedding issue.

4. The practice

- To overcome the issues, two different types of Solar PV plant have installed as per requirement i.e. ON grid PV plant and OFF grid PV plant.
- In our campus there is load shedding on every Friday and to cater load diesel generator is being used. An attempt is made to keep our campus carbon neutral and to minimise usage of diesel generator, OFF grid inverter of 100kW has been installed which works irrespective of grid supply. Excess energy is stored into batteries which can be utilized during excess demand or in absence of sunlight for critical load viz. CCTV, Outdoor Street lighting, passages lights and so on.

5. Evidence of success

The Solar panels installed on the Terrace (Roof Top) of SSJCET building as shown in the photograph uploaded.

It is believed that "Energy Saved is Energy Generated". On an average 60% of the total consumption is generated from solar energy.

6. Problems Encountered and Resources required:

Problems encountered: Required considerable maintenance as they are fragile and can be easily damaged, cleaning, weather dependent.

Resources required: Solar panels, Batteries and Inverters.

Best Practice–II

1. Title of the Practice

Students Associations of each Department and Students Council of SSJCET

2. Objectives of the Practice

- To improve personality, communication skill, acquainted with various competitive exams/

interviews
- To conduct relevant training programs, add-on courses, seminars, workshops to bridge the gap between academia and industry
- To organize various activities and events like project competitions, paper presentations, technical quiz, debate competition, personality contest etc.

3. The Context:

It is a platform for students to participate actively in the co-curricular activities, organized by students Associations/Students Council. Students joining our institute are from varied background.

4. The Practice:

Every Department is having Student Associations with Office bearers selected for every year. Head of Department along with faculty members will be conducting a meeting with students and form the students Association. In addition to that Student council is formed at Institute level to organize co-curricular activities and extra-curricular activities at Institute level like Sports, Tech Fest, Annual Day, etc.

5. Evidence of Success:

- The Students who are participating in activities are appreciated with Prizes and certificates. Students are actively participating in different activities, it makes a positive improvement in students like personality development, communication skills, management skills, programming skills, emotional balance, etc.

- As students and faculty work together, it builds team spirit among students.

6. Problems Encountered and Resources required:

- Students are hesitating to take part in activities because of lack of time due to hectic academic schedule.
- To motivate students for participation is challenge.

File Description	Document
Any additional information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Our Vision is committed to provide a value centered education. This is one of our visions. In line with Institute vision, conscious efforts are taken in the academic and allied activities of the Institute to nurture critical thinking, creativity and scientific temper among the students. Students are encouraged to take part in various events both Co-curricular and extra-curricular activities held at College level /Intercollegiate level to transform the students to a better citizen as well as to produce engineering professionals with high moral values.

Institute offers add-on courses to students for bridging the gap between curriculum and industry requirement and to cope up the students with latest technological knowhow. Students association in every department supplements the University curriculum by inculcating the leadership and managerial skill in students.

Institute aspires to have a transformational impact on students through comprehensive education by inculcating qualities of competence, confidence and leadership.

5. CONCLUSION

Additional Information :

SSJCET established in the year 2007-08 with the intake capacity of 240 students. In AY 2010-11 got increase in intake for EXTC & Mechanical from 60 to 120. From the AY 2014-15 SSJCET got permission for M.E. in Civil Engineering with specialisation Construction Engineering & Management, M.E. in Mechanical Engineering with specialisation Energy Systems & Management with the intake of 24 seats each. The campus spread over 10 acres of land earmarked for SSJCET with beautiful infrastructure. Shivajirao S. Jondhle Knowledge City, under Vighnaharata Trust, comprises various institutes such as polytechnic, MBA, Pharmacy, Law etc.

Concluding Remarks :

SSJCET distinguishes itself as a reputed institute by offering a student?centred education to diverse students, value inculcation through co-curricular and extracurricular activities and promoting use of technology for enrichment of learning. Institute is taking dedicated efforts to move towards its vision.

 The next goal of SSJCET is obtaining autonomy which will give us academic flexibility to pursue student centric learning driven by problem and project based learning. The learning process will be supported by R&D, consultancy and social / environment awareness through close collaboration with reputed institutions and industry. This will enable the students to maximise their potential and develop their personality.