YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	TSSM'S BHIVARABAI SAWANT COLLEGE OF ENGINEERING AND RESEARCH
• Name of the Head of the institution	Ganesh Arunrao Hinge
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	020-24608500
• Mobile no	9764560690
• Registered e-mail	principal@tssm.edu.in
• Alternate e-mail	principalbscoer@tssm.edu.in
• Address	S. NO. 12/1/2 AND 12/2/2, NARHE, TAL. HAVELI, DIST. PUNE
• City/Town	Pune
• State/UT	Maharashtra
• Pin Code	411041
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Urban

• Financial Status	**Self-financing**
• Name of the Affiliating University	**Savitribai Phule Pune University**
• Name of the IQAC Coordinator	**Dr. Pratap N. Shinde**
• Phone No.	**9890812929**
• Alternate phone No.	**9834858707**
• Mobile	**9890812929**
• IQAC e-mail address	**pnshinde2@gmail.com**
• Alternate Email address	**kanade.bscoer@gmail.com**

3.Website address (Web link of the AQAR (Previous Academic Year)	https://tssm.edu.in/naac-aqar2
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://tssm.edu.in/iqac/aqar-2020-21/academic_calendar.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A**	**3.08**	**2019**	**15/07/2019**	**14/07/2024**

6.Date of Establishment of IQAC	**28/06/2016**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	**Nil**	**Nil**	**Nil**	**Nil**

8.Whether composition of IQAC as per latest NAAC guidelines	**Yes**
• Upload latest notification of formation of IQAC	View File

9.No. of IQAC meetings held during the year	2	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
• If yes, mention the amount		

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

• Focus on enhancement in quality of course material • Industry institute interaction via MOU. • Planning for use of the MOOC courses and Virtual Lab • Skill development and training program for students to increase the placement of the students. • Organization and participation in various programs for enriching skill set in their respective domains

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

16-04-2024 12:20:58

Plan of Action	Achievements/Outcomes
The Academic Monitoring Committee (AMC) to observe smooth conduction of academic activities	Qualitative improvement in teaching learning and academic results
Motivate the students to learn in Massive Open Online Courses (MOOCs)	Most of Students were benefited from variety of subject available on MOOC platform and guidance from peers, which strengthen their academic productivity
Development of inhouse academic digital content	Recorded lecture and practical videos are available to students all the time thruogh department you tube channel as and when required
Academic audit of course file by AMC and quality assurance cell (QAC)	Qualitative improvement in course plan, course preparation and course execution is observed
To strengthen the industry institute interaction	The institute is ranked in Gold Category by the AICTE-CII industry linked survey
Motivate the faculty members to attend and participate in various technical activities such as faculty development program ,short term training program, workshop and webinar for upgradation in their technical skills set	Faculties have attended more than 50 different programs on technical skill development
Organization of the soft skill training programs by Training and Placement Cell	Maximum students have showcased their talent through effective communication skill. There is also increase in number of placement and package offered by platinum industries

13.Whether the AQAR was placed before statutory body?	Yes

- Name of the statutory body

Name	Date of meeting(s)
College Development Committee	12/06/2021

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020-21	28/01/2022

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):

17.Skill development:

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

20.Distance education/online education:

Extended Profile

1.Programme

1.1   280

Number of courses offered by the institution across all programs during the year

File Description	Documents
Data Template	[View File](#)

2.Student

2.1   1973

Number of students during the year

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2   **209**

Number of seats earmarked for reserved category as per GOI/ State
Govt. rule during the year

File Description	Documents
Data Template	View File

2.3   **694**

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	View File

3.Academic

3.1   **137**

Number of full time teachers during the year

File Description	Documents
Data Template	No File Uploaded

3.2   **137**

Number of sanctioned posts during the year

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	**280**

File Description	Documents
Data Template	[View File](#)

2.Student

2.1 Number of students during the year	**1973**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**209**

File Description	Documents
Data Template	[View File](#)

2.3 Number of outgoing/ final year students during the year	**694**

File Description	Documents
Data Template	[View File](#)

3.Academic

3.1 Number of full time teachers during the year	**137**

File Description	Documents
Data Template	No File Uploaded

3.2 Number of sanctioned posts during the year	**137**

File Description	Documents
Data Template	<u>View File</u>

4.Institution

4.1 Total number of Classrooms and Seminar halls	**38**
4.2 Total expenditure excluding salary during the year (INR in lakhs)	**613.6**
4.3 Total number of computers on campus for academic purposes	**551**

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Institute prepares quality plan through Internal Quality Assurance Cell (IQAC) and Academic Monitoring Committee (AMC). AMC prepares academic calendars in line with academic calendar of Savitribai Phule Pune University (SPPU).

Institutional preparation is ensured at three levels viz., faculty, laboratory and departmental preparation. The faculty members are instructed to prepare their course file as defined by AMC.

Based on load distribution, departmental time table coordinator prepares time table and the same is verified and approved by HOD. All necessary formats are made available to faculty members for record keeping. The course files are verified by AMC for correctness and completeness before commencement of semester. All the students are enrolled for respective courses on LMS-MOODLE.

Expert lectures, workshops and seminars are arranged to reinforce curriculum, and students are motivated to undertake mini projects wherever required as per subject plan.

Institute motivates faculty and ensures the adoption and usage of Information and Communication Technologies (ICT) tools, project based learning, and experiential learning. AMC ensures implementation of curriculum for entire semester as per plan, also providing necessary guidelines against deviation and observations of IQAC. IQAC verifies and validates the quality requirements of all academic processes and provides feedback to AMC.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

In the beginning of every semester for the preparation of academic calendar the institute refers the SPPU academic calendar. The students are communicated about the internal assessment processes as well as the subjects, exam pattern and respective teaching faculty for creating awareness of their academics to improve teaching learning. Academic assessments of each department are audited by AMC. Findings of audit are communicated to the respective head of the department for the necessary action. The respective head of department discusses the findings with the departmental AMC, GFM coordinator and class teacher. The departmental AMC monitors the scheduled activity executed as per plan. The respective subject teacher completes the assessment activity as per plan and declares the result. In some specific cases, if the student is lagging behind the deadline, then the student is given counseling to finish the assigned task within the stipulated time. Still if the student is not able to complete the assigned task on time, it is informed to the parents through GFM to guide and counsel the students for completing the task, by this the parents are also involved for the smooth execution of the academic process.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	**Nil**

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University   **B. Any 3 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

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

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

5

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data

requirement for year: (As per Data Template)

`11`

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	[View File](#)
List of Add on /Certificate programs (Data Template)	[View File](#)

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

`920`

File Description	Documents
Any additional information	**No File Uploaded**
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View File](#)

1.3 - Curriculum Enrichment

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

`One of the fastest changing and demanding fields is environmental sustainability. The curriculum includes courses related to renewable energy, waste management and water conservation technologies. Furthermore, institute makes efforts to attract students toward green culture by organizing curriculum based awareness programs. Curriculum also includes aspects focusing on eco-friendly design.`

`The assignments designed for various subjects demand to have a look at core values like engineering development for societal benefit, extending support to locals through technical activities and contributing towards societal development.`

`Engineers need to be aware of ethics as they make choices during their professional practice of engineering. Our institute includes discussion of ethics in curriculum of SPPU to i) foster an increased awareness of ethical behavior, ii) present engineering`

case studies that illustrate ethical (or unethical) decisions.

The cultural stereotypical perceptions of having different abilities among gender are overcome by the institute through adaptation of assignments irrespective of gender. While imparting the training, no gender discrimination is observed. The opportunities offered to the students overcome the barrier of the gender as reflected from the results. To augment the academic activities addressing gender issue, co-curricular activities and extra-curricular activities are given due importance.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

5

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

689

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	https://tssm.edu.in/iqac/aqar-2020-21/1.4.1.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://tssm.edu.in/iqac/aqar-2020-21/1.4.1.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

520

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	[View File](#)

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

237

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

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

All UG and PG admissions are regulated by the Pravesh Niyantran Samiti (PNS), Government of Maharashtra. Every year before the commencement of the semester institute arranges orientation program for newly admitted students. The students are tracked from their previous academic performance to their current academic journey. Institute identifies the needs to address the diversified essentials of every student on the basis of their grasping and social background. The Academic Monitoring Coordinator (AMC) develops pre-defined format by which the Guardian Faculty Member (GFM) carries out the assessment of students and then categorize them into advanced, average, and slow learners. Standard teaching material is prepared so that any average learner can grasp it. This data analysis is referred by all GFMs of First year engg (FE) classes and passed on subsequently to higher classes. For higher classes individual departments carry out activities for advanced and slow learners. Motivational support is also provided for advanced learner like Extra self-learning material is made available in self-learning lab. They can test their ideas through mini-projects where faculty members provide guidance and support. Faculty members further encourage these students to increase their involvement in various R & D projects wherever possible.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

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

Number of Students	Number of Teachers
1973	**137**

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

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

Teaching-learning process is designed and organized considering student-centric approach. MOODLE is used in the institute as an effective learning management system which provides scope for the students to undergo self-learning, participative learning and collaborative learning to provide solutions to practical problems. Through the use of MOODLE, the faculty members encourage the students to learn and explore their knowledge in addition to classroom teaching-learning process. Learning by doing, undertaking and implementing case studies, resolving problems through Project Based Learning (PBL) are some of the approaches adopted by the faculty members to ensure student learning and attainment of Course Outcomes. Extended learning opportunities are provided to students by encouraging them to participate in activities such as projects beyond curriculum, student presentations, and participation in technical activities. Model making, circuit designing, electrical equipment repair, and code debugging types of activities are conducted in the institute for imparting real life experience. To inculcate the habit of reading and life-long learning amongst students, in every department, time slot is allocated under the supervision of the faculty member for utilizing the library effectively.

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

To adopt appropriate teaching methodology, the classrooms are well equipped with ICT facilities. Use of online resources are possible as the classrooms are enabled with wi-fi facility. In-line with outcome-based education, to enhance the learning ability and inculcate the engineering knowledge, it is necessary to change the attitude towards academics by using advanced ICT tools like, Learning Management System – MOODLE, Self-learning Laboratories, Virtual Class (VC) Lectures and Online Video Recordings of theory and laboratory sessions.

ICT enabled teaching learning methods are instrumental in developing self and independent learning attitude amongst the students which can significantly augment the conventional teaching learning process. This method inculcates the habit of independent learning amongst the students through the use of self-learning laboratory. The recorded video sessions prepared by faculty members provide experience of learning rather than reading from books.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

2.3.3.1 - Number of mentors

71

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

137

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

13

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

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

2.4.3.1 - Total experience of full-time teachers

592

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	[View File](#)

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The institute adopts various methods to evaluate students. The quizzes, assignments, MOCK, Unit test are used for internal evaluation. This evaluation will help the students to understand how he can improve in succeeding exams. To evaluate the understanding level of student topic wise Multiple Choice Questions are uploaded on Moodle. Where time duration is provided and students attempt the MCQ test. Their ability of reasoning and understanding is judged and performance evaluated. On important topics the various assignments are given to understand clarity in concepts, problem solving as well as presentation. The unit tests are conducted on taught units by selecting the questions on course outcome based. Results of unit tests are given to students and their counselling is done for improvement in their performance. For considering the students to perform better in the Practical and oral exams the MOCK orals are conducted to understand their detailed knowledge about the topic. Seminars and project reviews are arranged on selected topics from research papers by which preference is given for recent trends in the technology. The guidance is provided for selection of topic. The performance is evaluated on the basis of content delivery, selection of topic, the presentation and answering ability.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	**Nil**

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

As per the Savitribai Phule Pune University (SPPU) examination ,

examination cell is constituted at the institute level. Grievance Redressal Cell (GRC) is constituted by the Principal. The students can approach GRC with grievances and GRC provide guidelines to the students in resolving problems.

Grievances are forwarded within the stipulated time to the SPPU. The SPPU classifies grievances and forms respective committees .The committee members are selected from the affiliated colleges on random basis , grievances are resolved by the committees and the decisions are communicated to the institute by the SPPU. The decisions are informed to the students through examination section of the institute. In case of online examinations, if any technical problem related to system occurs, CEO of the institute, in consent with the SPPU, resolves the issues. The grievances related to internal evaluation of the institute are timely resolved by the GRC as per the guidelines laid down by IQAC.

If the claim of student related to continuous assessment , Then the claims are settled at department level, If the claims are not settled at department level, then the case is forwarded to IQAC for quality check which calls the experts from other institutes and resolves the case.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

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

Institute has sound clear Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for all programs. Teachers are familiar with POs, PSOs of the programs as they are involved in PO PSO formation process. For newly joined staff during departmental staff meeting Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for respective program is conveyed. Also Vision and mission of the college is discussed in those meetings. Head of the department and teachers discuss POs and frame PSOs of the programs which are in line with Graduate Attributes and Vision, Mission of the Institute. POs and PSOs are displayed for teachers and students at following locations: 1.Institute web site 2.HOD cabins 3.Notice Boards 4.Department

laboratories 5.Department Library. Principal delivers address to all newly admit first year students and their parents in the induction program. During this address institute vision, mission and program objectives are stated. Every course teacher discusses expected course outcomes with students at the beginning of each semester. The MOODLE is also used to convey the COs, PSOs and POs to the students and faculty members. Every subject teacher keeps the copy of POs, PSOs and COs in their course files.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	https://tssm.edu.in/academics/best-computer-engineering-colleges-in-pune
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

The course coordinator defines the policy for attainment of each CO through tests, mini-project, lab work and students activities to be performed by students. All questions of internal tests are mapped with COs. Being affiliated institute 60% weightage is for external tests and 40% for internal test. The performance of students in projects, lab work and student's activities are mapped with COs. Through direct tools like test, projects, performance rubric and student's portfolio, the attainment of COs is evaluated at mid semester and end semester.

Through mapped COs, the attainment of POs/PSOs is evaluated. The indirect tools like course end survey, exit survey are employed to get perception of self-evaluation. For getting overall attainment of POs/PSOs, the weightage for attainment through test is 50%, weightage for attainment through student's activity is 40% and that for indirect tools through various surveys and feedback is 10%. The assessment process resulting in attainments is evaluated by course coordinator and program coordinator and conveyed to students and parents. Based on the level of attainments, the action plan for improvement is suggested in next cycle.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

694

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://tssm.edu.in/iqac/aqar-2020-21/ceo-report.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://tssm.edu.in/iqac/aqar-2020-21/2.7.1.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

5.45

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

4

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

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

9

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	View File
Paste link to funding agency website	**Nil**

3.2 - Innovation Ecosystem

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

The knowledge and expertise available with the institute is made available to the aspirants through incubation centre, wherein, the

policies are frame to provide technical and commercial support for the first generation entrepreneurs. Due care is taken by the incubator to make the availability of technical expertise, resources, and finance through its channel. The know-how of the institute in domain of legal requirements with the competent authorities to start the venture is also extended.

Initiatives like, supporting the students to develop innovative products, undertake interdisciplinary projects, involving students in R & D projects of faculty members, making the students participate in national competitions, resolving the problems floated by companies and solving social problems through technical solutions, lead to creation and transfer of knowledge. In addition to the incubation center the institute special effort for transfer of knowledge by encouraging students to participate in various technical activities like BAJA, GoKart, SUPRA, Hackathon, Project competitions, etc. by providing financial assistance. The laboratories, workshop, library, internet is provided to the students in the extended timing. Students are felicitated at the appropriate platforms for their achievements. The successful alumni entrepreneurs are invited to interact with students and guide them to take the right direction for entrepreneurship through alumni connect program.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

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

08

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

02

File Description	Documents
URL to the research page on HEI website	https://tssm.edu.in/academics/research
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

45

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

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

3

File Description	Documents
Any additional information	No File Uploaded
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The institute postulate social responsibility and has policies to fulfil them. The faculty members and students of the institute participate actively to resolve social issues within window. This helps to imbibe the social values amongst the students leading to their holistic development. To sensitize the students, institute organizes various events like, exhibiting societal problems in campus, and organizing discussions on the same. In this domain, the NSS unit of the institute plays a major role. Also, all the academic departments contribute towards the cause. Attempts are being made to exhibit the applicability of the competency and skill imparted to the students towards resolving social issues through regular academics as well as co-curricular and extra-curricular activities.

To extend the actual benefits to the society, institute has adopted Haatve and Khopi villages of Pune district. This practical approach of the Institute has resulted in positive impact on students as well as all community members, such as team work, building leadership quality, problem identification and problem solving skills. These institutional activities create a spiral eco-system for betterment of the adopted villages. Villagers understand the importance of involvement of engineers and technocrats in uplifting their lives.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	<u>View File</u>

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
Any additional information	**No File Uploaded**
Number of awards for extension activities in last 5 year (Data Template)	<u>View File</u>
e-copy of the award letters	**No File Uploaded**

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

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

3

File Description	Documents
Reports of the event organized	<u>View File</u>
Any additional information	**No File Uploaded**
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<u>View File</u>

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

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

12

File Description	Documents
Report of the event	<u>View File</u>
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<u>View File</u>

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

31

File Description	Documents
e-copies of related Document	View File
Any additional information	**No File Uploaded**
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

6

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	**No File Uploaded**
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Improvement in the teaching-learning process is always related by the infrastructure. Institute has already taken the care of infrastructure as per the norms. In some of the cases, the

infrastructure exceeds the norms. The classrooms are available exclusively for each class/division and thus offering the additional coaching to the students through the measures like practice sessions, remedial classes, extra lectures, and expert lectures do not face any problem. Also, the exclusive availability of the classroom provides enough space for the learner to practice the things even beyond the schedule.The classrooms are well equipped with ICT facilities which aid the faculty members to adopt appropriate teaching methodology without shifting the location to laboratory or other places.

As per norms, the need for computers to student's ratio is 1:6 which is surpassed quite ahead by our institute by making the computers to student ratio at 1:4. All the computers are in LAN and thus huge computational facility is available for those who want to utilize it.

To have interaction with large group of students or to deliver the expert lecture, requirement exists of an infrastructure large enough, which is fulfilledthrough the well designed and developed seminar halls.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

The institute focuses on overall development of the students through co-curricular and extra-curricular activities.

The institute has an open ground with provisions for sports like cricket, football, volleyball, kabaddi, and kho-kho. An exclusive basketball court is available for students. All available facilities can be used by the students at all the times other than scheduled academic activities. Indoor games like, carom, chess and table-tennis can also contribute towards developing specific attributes such as planning andintellectual thinkingamongst the students. Adequate facilities for such games are provided.

Inter-departmental sports and games competitions are frequently held in the institute.The winners in such competitions are awarded

with certificates and due publicity is given to them for encouragement.

For physical and mental health, Yoga is promoted and practiced in the institute. A Yoga center is available to the students where they can practice Yoga during their free time. World Yoga Day is organized in the institute to increase awareness amongst the students.

Apart from this, college organizes various cultural events under the ambit of "Jashn-E-youth". Students are also encouraged to participate in various cultural events organized at university level, intra and intercollege events viz. Purushottam Karandak, Konkan Karandak and University Karandak.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

38

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

30.79

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

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

Main objective of the central library is to support the vision of the institute and to provide seamless access of information in networked environment. The library is fully automated using library management software 'AutoLib (V.1.0.1)'since 2013. AutoLib – is popular and advanced integrated library automation management software. AutoLib is fully integrated, versatile, user-friendly, cost-effective and multi-user software. AutoLib is equipped with different modules like Acquisitions, Cataloguing, Circulation, Serials and OPAC. Acquisitions module is used for ordering, receiving, and invoicing materials from institute vendors. Cataloguing module is used for classifying and indexing of library resources. Circulation module facilitates lending of books to users and receiving them back. This module is used for all types of counter transactions such as: Issue, Renewal, Return, Recall, Reservation, Reservation Cancel, Reminders, Overdue receipt, No-due certificate, Overdue reports and Statistical reports for all specified counter transactions. Serials module simplifies tracking of magazine and newspaper holding of the library. OPAC module facilitates easy access of available resources to the users. This module has Simple search and advanced search facility to search the database using important fields such as Accession Number, Call Number, Author, Title, Edition, Year, Publisher, Subject, Keywords, Department and Availability.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the B. Any 3 of the above

following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

27.68

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

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

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

12

File Description	Documents
Any additional information	**No File Uploaded**
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

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

The institution frequently reviews and upgrades its IT facility

and has latest computing facilities which includes - hardware, software and networking. The institution plans to acquire more number of computers and related infrastructure with upgraded IT facility.

The installation and maintenance is carried out with the help of expert and dedicated system administration team of the institute.

The up gradation is carried out periodically as and when it is necessary. For example, whenever the curriculum suggested by the University changes, or when the new technology is introduced in the market and is recommended to be taught to the students.

INTERNET Facility

The institute has a 65 Mbps leased line from Teleglobal Communications Pvt. Ltd. Wi-Fi Connectivity with wireless access point (Brovis)

The institute has Zoom online application for conducting online lectures.

LAN Facility:

The institute provides Ethernet with broadband Internet facilities in all departments and office buildings. The LAN is operating with a speed of 100 Mbps with 100 BaseTX twisted pair Fast Ethernet using UTP Cat 6 cabling.

Institute has Interactive smart boards for ICT, application software and Antivirus software.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

551

File Description	Documents
Upload any additional information	**No File Uploaded**
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution   **A. ? 50MBPS**

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

74.70

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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.

The institute has policies for daily maintenance, preventive maintenance and breakdown maintenance.

Daily maintenance: Wherever required complete Cleaning, Lubrication, Repair, and Inspect (CLRI) procedure is adopted. Maintenance chart is filled on daily basis which is supervised by the concerned. It is ensured that no equipment/infrastructure

faces emergency maintenance.

Preventive maintenance: As per the schedule, all the preventive maintenance activities are carried out resulting in upkeep of infrastructure and equipment. Before commencement of semester the corresponding cells ensure that the infrastructures as well as laboratories are functioning correctly as per standards.

Breakdown maintenance: In case the equipment are beyond repair or have lost the significance from the perspective of utility, they are written-off through the defined mechanism of the institute.

In any of the cases, the problem is conveyed by the process owner to the maintenance team and accordingly the manpower is deputed to resolve the same.

Barring the common facilities, like, sports complex and library, every department has exclusive infrastructure with them and thus, no hurdle is faced for implementing various activities. Within the department, resource utilization plan is also developed and conveyed to the concerned so as to avoid the inconvenience and loss of academics.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1525

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

4

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

B. 3 of the above

File Description	Documents
Link to Institutional website	**Nil**
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

159

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

159

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	[View File](#)

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

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	[View File](#)
Upload any additional information	[View File](#)
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

144

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

14

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

1

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

0

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at unive rsity/state/national/international level (During the year) (Data Template)	[View File](#)

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

The institute has active Student Council. Every year, the formation of Student Council is done as per the guidelines set by SPPU. The objective behind formation of Student Council is to give an opportunity and responsibility to the students to organize various `in the institution to enhance and develop various skills like leadership quality, stage daring, social awareness and a sense of responsibility towards the society.

The Student Council is governed by the faculty members headed by the Principal.

Sports Committee in the institute organizes various sports competitions for the students that provides platform for them to participate at University and State level. . National Service Scheme (NSS) is active in conducting various social activities like blood donation camp, cleanliness camps at adopted villages, tree plantation and yoga day celebration. In this year after pandemic situation of COIVD-19, NSS has conducted various activities regarding awareness program of Covid -19. NSS students collected database of Blood donor of around 1000 students who are

ready to donate blood and submitted to university.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

0

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	<u>View File</u>

5.4 - Alumni Engagement

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

Institute has registered Alumni Association from Assistant Charity Commissioner, Pune, with the name of "TSSM's Bhivarabai Sawant College of Engineering and Research, Narhe, Pune, Alumni Association", on 29 February 2016. The registered Alumni association number is MAHA/343/2016/Pune. The TSSM's BSCOER Alumni association formed in the Institution to satisfy following financial and non-financial assistance to attain social values by individual or by group of students associated with Alumni association.

Non-financial activities: 1. Organizing industrial visits 2. Active role in bringing up MoUs. 3. Delivering academic lectures 4. Disseminating information on current and future trends in

industries 5. Contribution in laboratory development 6. Participating in curriculum development 7. Extending help for campus interviews 8. Acting as brand ambassador of the institute 9. Facilitating sponsored projects for students 10. Facilitating internships for students 11. Sharing information about higher studies 12. Guidance for co-curricular and extra-curricular activities 13. Participation in social welfare activities

Financial activities: 1. Alumni Membership of alumni association 2. Institutionalization of scholarships 3. Financial contribution towards development of academic facilities 4. Sponsoring required devices 5. Donating in kind, books, mementoes

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

5.4.2 - Alumni contribution during the year (INR in Lakhs)   D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Vision:

To develop globally competent engineers for techno-economic development of society.

Mission:

To provide, nurture and maintain an environment of academic excellence, research and entrepreneurship for aspiring engineers to meet global challenges ethically.

The institute achieve vision by adopting effective, efficient and contemporary practices. The achievement of vision through mission and objectives is put before the stake holders effectively making the roles and responsibilities of every stake holder clear. Decentralization and operational transparency are the features of the institute. Participative management gives boost to the institute's operation.

The institute has a perspective plan in accordance with its vision. By previous experiences, stakeholders' suggestions and the changing scenario in the field of engineering, the perspective plan has been designed by our institute which includes major objectives, such as ,accreditation by national and international bodies, introducing research centres, permanent affiliation, autonomy of the institute, establishing center of excellence and foreign collaborations for higher studies and student placement.

Institute understands that better management practices and better leadership, faculty members play a vital role in institutional achievements. The faculties are contributing in various decision making bodies of the institute, such as, College Development Committee (CDC), Internal Quality Assurance Cell (IQAC), Academic Monitoring Cell (AMC), etc

File Description	Documents
Paste link for additional information	https://tssm.edu.in/iqac/aqar-2020-21/6.1.1.pdf
Upload any additional information	View File

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

1.1 Preamble:

The Institute believes that thrust of quality education which can be fulfilled through effective knowledge transformation relevant to the curriculum by introducing innovative and creative ways of teaching, The academic monitoring committee is formed to facilitate students with a wide range of student-focused support systems and learning environments that enable them to complete their academic activities successfully.

1.2 Objectives of AMC :

1. To restructure, review, and monitor the academic activities of the graduate programme
2. To ensure that the programme not only remains competitive, but also relevant to the present context so as to enhance the emerging and contemporary issues
3. To take consistent efforts to blend the industry expectation and academic curriculum
4. To introduce innovative and creative ways in imparting knowledge and skill sets to promote academic excellence
5. To ensure overall grooming of entrepreneurial and managerial skill sets of the students

1.3 Roles & Responsibilities:

1. The AMC thoroughly works on designing the educational process
2. It continuously reviews and monitors the process, keeping in view the emerging needs and expectations of the industry
3. The AMC along with the strength of the faculty members continuously works on updating and restructuring the innovative skill sets for promoting academic excellence.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

As per the perspective plan of the institute to enhance industry-institute interaction for improving academics, research and placement activity is important. The Industry Institute Interaction Cell (IIIC) is formed at the institute level which facilitates interaction between various organizations. Based on the departmental strengths and needs, it was planned to identify the potential organizations for signing Memorandum of Understanding (MoU) for mutual gain. IIIC has carried out online survey of various organizations to understand their scope of working, strength, and requirements. After deliberations and common consensus, decision about working on specific tasks were decided, that includes resource sharing, project reviews,

sponsored projects, internships, training, and placement. The interaction of industry personnel with the students and faculty members helps to enrich the learning experience. Also, such interactions were helpful to depute the students in industries for internships which in turn, may provide placement to the students. Looking at the faculty engagement and their availability for employability skill enhancement, it was decided to have tie-up with industries in this domain. To cite the examples, Zensar ESD (Employability Skill Development) program and Barclay's Skill Development Program played vital role through MoU.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://tssm.edu.in/iqac/aqar-2020-21/IQACAR.pdf
Upload any additional information	No File Uploaded

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

The organization chart of the institute is arranged in hierarchical structure. Where the top most authority is Governing body who takes the major decisions based on the requirements for the benefit of institute. The College Development Committee (CDC) executes the decision at institute level with the help of principal and other faculty members. All the decisions are carried in participative environment. The college has various cells for all the activities to be carried out. The cells are working in consultation with Internal Quality Assurance Cell (IQAC). Other cells of institute like Academic Monitoring Cell (AMC), Institute Research Cell (IRC), Industry Institute Interaction Cell (IIIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging cell, alumni cell, National Social Service Cell (NSS), grievance redressal cell etc. which are functioning at institute level. Heads of the departments work in coordination with the AMC cell and with the help of teaching and nonteaching staff, the tasks are executed. IRC head arranges various programs for research activities in the institute. Office administration is done through office superintendent. The employees are benefitted with staff welfare schemes. Decentralization and participative management are achieved by this type of hierarchical structure.

File Description	Documents
Paste link for additional information	**Nil**
Link to Organogram of the institution webpage	https://tssm.edu.in/iqac/aqar-2020-21/6.2.2.pdf
Upload any additional information	**No File Uploaded**

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

Following is the list of Welfare Schemes available in our institute:

- **Provident Fund Facility for Staff**
- **Group Insurance for all Staff**
- **Medical facility for Staff**
- **Transport Facility to staff**
- **Provision for supporting higher studies at institute of national importance**
- **Incentives for achievements for teaching and non-teaching staff**
- **Free trainings facility to staff**
- **Accommodation facility for non-teaching staff**
- **100% revenue generated out of consultancy is distributed amongst the concerned team**

- **Institute bears 100% of patent filing fees in case of joint patent with institute**
- **Provision to finance deserving activities of the faculty members**
- **Financing professional memberships of any one professional chapter**
- **Financing the faculty membership who act as faculty advisor of student chapters**

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

6

File Description	Documents
Upload any additional information	[View File](#)
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	[View File](#)

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

15

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

52

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Performance appraisal system is implemented as per the guidelines of UGC where all the aspects required to evaluate faculty performance like Teaching learning, co-curricular, extra-curricular activities, research component are incorporated

appropriately. Recently, the Academic Performance Index (API) is introduced online. Based on API, institute decides corresponding line of action like, rewards, recognition, training to the faculty members in identified domain or the notices for improvment .The faculty got the direction to work with target. They are on their own seek guidance and training to fulfill their tasks. By the end of the year, faculty members are supposed to fill the API and provide the proofs for their claims. These claims are verified by the HOD. Further, these evaluations are evaluated by the Principal and the remarks are given for management consideration.

Similar online performance appraisal system is existed to evaluate the performance of non-teaching staff. Their performance is evaluated against their defined portfolio. The staff provides the data online, is verified by the concerned superior. The superior provides the remarks. Finally, the performance of is evaluated by the Principal.

Thus system of online performance evaluation provides effectiveness and transparency in the process.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Institution believes that it has effective and robust in-house mechanism for financial audit. However, like to have opinion of third party too. Till date institutional financial audit is carried out by Chartered Accountant (CA) by Corporate Office.

The observations and comments of CA are taken into considerations and implemented immediately. Similarly financial assistance and remuneration received from SPPU is separately audited by external CA and audited balance sheet is submitted to SPPU for the approval.

The funds received from non-governmental organization (Consultancy, Resource sharing) is separately deposited and

utilized for said activity. This account is separately audited and report is submitted to respective non-government organization for information.

All the departments having departmental association where students contribute for department specific co-curricular and extra-curricular activities. This account is also audited and audited balance sheet is displayed on notice board for information of all students.

Funds received from reservation are required to distribute all the students in their account. This account is also verified and audited by government regularly.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

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

0.00

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Apart from the funds received by the institute through fees collection, funds are mobilized as per the policy defined by the institute as follows:

1. Fund mobilization for co-curricular and extra-curricular activities through university schemes.

2. **Fund mobilization for student projects and student oriented mega activities through corporate CSR schemes and sponsorships from private and public organizations.**
3. **Fund mobilization to support needy students through university schemes like "Earn and Learn", donations by philanthropists, scholarships and free ships from government schemes and NGOs.**
4. **Financial contribution of alumni for institutional development**

Forthcoming part highlights the procedure adopted for fund mobilization and utilization.

1. **The concerned individual/section/department of the institute raises the fund requirement beyond the allocated budget due to additional, un-planned/urgent activity.**
2. **The demand is noted by the Principal and is forwarded to Fund Mobilization Committee (FMC) which scrutinizes the requirements and prepares the proposal for submission to appropriate agencies.**
3. **On receiving the funds, as per the directives of the funding agency, the funds are handed over to the seeker and its utilization is monitored closely.**
4. **The fund utilization also gets audited in institutional audit.**

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File]()

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

1. **Laboratory Preparation: IQAC has recommended to implement a scheme called "Laboratory Preparation". This scheme would ensure correct functioning of all the instruments and setups, availability of standard results of the experiments validated by the corresponding faculty members, availability of required setup as per curriculum fulfilling the need of pre-requisite and gaps, if any. Also, the scheme demands to have the operational procedures displayed near setups/along**

with setups so that it becomes guide for the students for conducting the experiments on their own. This will provide opportunity to the students to conduct the experiments of his choice under supervision of faculty.

2. **Faculty Development Program:** The faculty members must be aware of contemporary requirements. However, the schedule of the institute and the university related work makes faculty schedule very tight. Taking into account these two factors, IQAC has recommended to impart training to the faculty members at institute itself rather than deputing individual or few faculty members at other locations.

3. **Digital Content Development:** The facility for digital content development is made available at the institute to all the faculties through DCD cell. The developed digital content is made available to the beneficiary via Moodle & Department YouTube Channel.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Taking into account the need of society and learner, Internal Quality Assurance Cell has decided to bring-in reforms in teaching learning process. Following are the cases:

Enhancement of course file: The effectiveness of teaching-learning process is contributed by faculty preparation for the given set of students. While developing the course file, it should address the need of self-learning of the students, need of the students with read and write style, observe and learn, and experience and learn. The items like, tier assignments, case studies, video links, reflect coverage of all categories of teaching and learning tools. The important part of the course file is teaching learning plans, assessment methodology and tool being adopted by the faculty members.

Use of interactive digital teaching learning material: The institute has decided to switch over from traditional teaching learning process to student centric system. Therefore the

institute created infrastructure for developing such material and is made available at the institute: this includes hardware, like, high end multimedia PCs, softwares like, Raptivity, high end DSLR cameras. By using this of developed infrastructure, training is imparted and the support extended, faculty members have designed and developed excellent highly interactive teaching learning material.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://tssm.edu.in/iqac/aqar-2020-21/IQAC AR.pdf
Upload e-copies of the accreditations and certifications	[View File](#)
Upload any additional information	[View File](#)
Upload details of Quality assurance initiatives of the institution (Data Template)	[View File](#)

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The Institute has constituted the distinct view of education from gender perspective namely knowing gender equality and its rich

methods of exposure and spreading awareness regarding gender rights, equity and equality, to build moral value based education system that inculcates right ethics and morals based on righteousness of conduct and sense of responsibility of every action.

In emergency 24*7 Institute has its own Ambulance Facility in the campus. Anti-Ragging committee and Women grievance cell are active in the institute to resolve students' grievances.

The institute is having separate boys and girls hostel inside the gated premises with supervision of rectors. Ladies and gents' security guards are working 24X7. Institute campus including main gate, corridors, examination section, and entry of all buildings, canteen, library and hostels are monitored by CCTV cameras.

Common Room: As per the AICTE norms institute is having separate girl's common room, and boy's common room. In case of medical emergency separate sick room is available along with all necessary facilities.

Counseling: Through Guardian Faculty Member (GFM) Institute provides academic, co-curricular and extra-curricular activity counseling of the students regularly.

File Description	Documents
Annual gender sensitization action plan	https://tssm.edu.in/iqac/aqar-2020-21/7.1.1-plan.pdf
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://tssm.edu.in/iqac/aqar-2020-21/7.1.1-facilities.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures   Solar energy Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/power efficient equipment

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	[View File](#)
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid Waste:

Institute is having contract with external agency for solid waste disposal. Remaining solid waste is collected in common pit for environment friendly disposal. Biogas plant is installed in the institute for canteen (kitchen) solid waste management. Institute takes initiative to segregate solid waste into different buckets viz. plastic pens, refills, water bottles, natural waste, stationary papers.

Liquid Waste:

There is no hazardous liquid waste generated in the institute. Used oils/coolant in workshop and different departmental machines are collected and disposed off separately.

Sewage Treatment Plant (STP) of 500kLD is available in the campus and recycled water is use for gardening purpose. Also hard water generated from water treatment (RO) plant is used for gardening purpose.

E-waste Management:

Electronic and computer accessories which are write-off by respective department sold to licensed vendor. Efforts are taken to ensure national e-waste policy implemented by vendor during write off.

The non-working computer spare parts, electronic scrap components and other nonworking equipments are used for display purpose in order to explain configuration/inside view to the students which they used to study in their theory lectures.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus　　**A. Any 4 or all of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:　　**A. Any 4 or All of the above**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the　　**A. Any 4 or all of the above**

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	[View File](#)
Certification by the auditing agency	[View File](#)
Certificates of the awards received	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen   reading

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	[View File](#)
Policy documents and information brochures on the support to be provided	[View File](#)
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

We believe in unity in diversity that's why our students respect

the different religion, language and culture. We greet and wish each other at different festivals and invite them to have a feast to get introduced with ones culture to have amicable relations and to maintain the religious, social and communal harmony. Similarly our students also celebrate the different festivals with joy and enthusiasm which help them to implant the social and religious harmony. The diversity in India is unique. Being a large country with large population. India presents endless varieties of physical features and cultural patterns. It is the land of many languages it is only in India people professes all the major religions of the world. To represent our Indian culture, on the eve of our college annual gathering we organize a traditional dress competition and fashion show. In this competition students wore the different attire representing the different states, religions and cultures. Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. This also creates the inclusive environment in the college and society.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Our institution takes all possible initiatives in organizing various events and program for molding the students and staff to become responsible citizens of the country by sensitizing them to the constitution of the country. The college encourages the students to take part in blood donation camps, study tours for them that make them understand the importance of protecting the cultural heritage of the country. Singing of national anthem in the campus to bring a feeling of patriotism among all is practiced. The students also being the responsible citizens take many community services and provide services to mankind and society. The students have taken up many cleanliness drives inside the campus and nearby villages. The students have also taken up Plantation drives to provide a clean and green environment for all. Swachh Bharat Abhiyan has also been an important initiative taken up by the college where we have organized an awareness rally

for the students and took a tour in entire town to create awareness among all. Republic day is celebrated on 26th Jan by organizing activities highlighting the importance of Indian Constitution. Independence Day is also celebrated to highlight the struggle of freedom and the importance of Indian constitution.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://tssm.edu.in/iqac/aqar-2020-21/7.1.9-values.pdf
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized   A. All of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Republic Day and Independence Day: Every year institute celebrates Republic Day and Independence Day. We dedicate these days to all those brave leaders and freedom fighters who gave freedom to our

country. The program starts with Flag Hosting followed by National Anthem.

Mahatma Gandhi Jayanti: Mahatma Gandhi is referred to as National Father who devoted his whole life preaching Truth and following Ahimsa. The NSS volunteer organizes the mass pledge in institute in accordance with the Prime Minister's urge for 'Swaachh Bharat Abhiyaan'.

Shiv Jayanti: Institute celebrates Shivaji Maharaj Jayanti every year to commemorate our respect towards Maharaj and to encourage the students about the sacrifice for nation & the management policies used in that era.

Ganesh Chaturthi: Our institute celebrates Ganesh Chaturthi for the duration of five days with full fervour. The visarjan is magnificent with students dancing on beats of dhol-tasha pathak and walking towards to immerse the figurines.

Along with this institute used to organized programs on the birth/death anniversaries of great indian personalities like Dr. B R. Ambedkar the writer of Constitute of India, Sir Vishveshwarayya an eminent engineer, on Engineer's Day, etc. and national festivals like Dasara, Diwali, etc.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

??????Title of the practice - 1:Multilevel Monitoring of Students

Objectives:

- To monitor and provide support for improving academic performance

- To nurture the conducive environment for their multidimensional development by providing relevant guidance
- To mentor the students for their behavioral, professional and personality development
- To improve interpersonal connectedness with teachers and peers
- To enlighten the students on professional ethics and social awareness
- To provide emotional support to individuals in consultation with the parent

Title of the practice - 2:In-house Development of Digital Teaching-Learning Resources

1. Objectives

- The major objective of the practice is to develop digital teaching-learning resources and provide an open platform to make those available through the use of ICT enabled technologies.
- To provide a platform for knowledge transformation and live interaction with experts through video conferencing facility
- To inculcate habit of independent learning amongst the students through the use of self-learning laboratory
- To provide experience of learning rather than reading from books by referring exclusively recorded video sessions prepared by faculty members.
- To provide easy interface of the developed digital resources through QR codes

The details about these best practices are available at:https://tssm.edu.in/iqac/naac/best-practices

File Description	Documents
Best practices in the Institutional website	https://tssm.edu.in/iqac/naac/best-practices
Any other relevant information	**Nil**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The institute has established Professional Skill Development Center (PSDC) which identifies the industry with requirement on specific skillset. PSDC then prepares MoU between institute and the industry. The institute and industry involve their experts to train the graduating students on specific skillsets required by industry. Institute has affiliated with international certifying organizations based on training skills.

Computer Department conducted workshop on "Rasberry PI Programming. Established MOU with Trishta Global privet limited on manual and Automation software testing provide internship and employment in Trishta Global. The institute is affiliated to international Software Testing qualifier board. 6 Students were trained and accepted internship in software testing. Infosys Talent Acquisition Certificate Examination computer and EnTc department organizes Python Programing workshop.

Department of Mechanical Engineering conducted Seminar on Opportunities to mechanical engineering students in Government Jobs. Also on 'How to Crack MPSC Exams' conducted by Ignite Academy Pune. Online session conducted on 'Introduction to CAD Software' Conducted by CAD Center Pune.

Department of EnTC Engineering Organized a Three days workshop on The workshop on Patent Publish and Grant.

Civil Engineering students Participated in project competition 'CIVIL WITcher' organized by Institute of engineers at walchand Institute of technology.

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Institute prepares quality plan through Internal Quality Assurance Cell (IQAC) and Academic Monitoring Committee (AMC). AMC prepares academic calendars in line with academic calendar of Savitribai Phule Pune University (SPPU).

Institutional preparation is ensured at three levels viz., faculty, laboratory and departmental preparation. The faculty members are instructed to prepare their course file as defined by AMC.

Based on load distribution, departmental time table coordinator prepares time table and the same is verified and approved by HOD. All necessary formats are made available to faculty members for record keeping. The course files are verified by AMC for correctness and completeness before commencement of semester. All the students are enrolled for respective courses on LMS-MOODLE.

Expert lectures, workshops and seminars are arranged to reinforce curriculum, and students are motivated to undertake mini projects wherever required as per subject plan.

Institute motivates faculty and ensures the adoption and usage of Information and Communication Technologies (ICT) tools, project based learning, and experiential learning. AMC ensures implementation of curriculum for entire semester as per plan, also providing necessary guidelines against deviation and observations of IQAC. IQAC verifies and validates the quality requirements of all academic processes and provides feedback to AMC.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

In the beginning of every semester for the preparation of academic calendar the institute refers the SPPU academic calendar. The students are communicated about the internal assessment processes as well as the subjects, exam pattern and respective teaching faculty for creating awareness of their academics to improve teaching learning. Academic assessments of each department are audited by AMC. Findings of audit are communicated to the respective head of the department for the necessary action. The respective head of department discusses the findings with the departmental AMC, GFM coordinator and class teacher. The departmental AMC monitors the scheduled activity executed as per plan. The respective subject teacher completes the assessment activity as per plan and declares the result. In some specific cases, if the student is lagging behind the deadline, then the student is given counseling to finish the assigned task within the stipulated time. Still if the student is not able to complete the assigned task on time, it is informed to the parents through GFM to guide and counsel the students for completing the task, by this the parents are also involved for the smooth execution of the academic process.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	B. Any 3 of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

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

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

5

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

11

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

920

File Description	Documents
Any additional information	**No File Uploaded**
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View File](#)

1.3 - Curriculum Enrichment

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

One of the fastest changing and demanding fields is environmental sustainability. The curriculum includes courses related to renewable energy, waste management and water conservation technologies. Furthermore, institute makes efforts to attract students toward green culture by organizing curriculum based awareness programs. Curriculum also includes aspects focusing on eco-friendly design.

The assignments designed for various subjects demand to have a look at core values like engineering development for societal benefit, extending support to locals through technical activities and contributing towards societal development.

Engineers need to be aware of ethics as they make choices during their professional practice of engineering. Our institute includes discussion of ethics in curriculum of SPPU to i) foster an increased awareness of ethical behavior, ii) present engineering case studies that illustrate ethical (or unethical) decisions.

The cultural stereotypical perceptions of having different abilities among gender are overcome by the institute through adaptation of assignments irrespective of gender. While imparting the training, no gender discrimination is observed. The opportunities offered to the students overcome the barrier of the gender as reflected from the results. To augment the academic activities addressing gender issue, co-curricular activities and extra-curricular activities are given due importance.

File Description	Documents
Any additional information	**No File Uploaded**
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	[View File](#)

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

5

File Description	Documents
Any additional information	[View File](#)
Programme / Curriculum/ Syllabus of the courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	[View File](#)
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Institutional Data in Prescribed Format	[View File](#)

1.3.3 - Number of students undertaking project work/field work/ internships

689

File Description	Documents
Any additional information	[View File](#)
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	[View File](#)

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the	A. All of the above

institution from the following stakeholders Students Teachers Employers Alumni	

File Description	Documents
URL for stakeholder feedback report	https://tssm.edu.in/iqac/aqar-2020-21/1.4.1.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows	A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	https://tssm.edu.in/iqac/aqar-2020-21/1.4.1.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

520

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

237

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

All UG and PG admissions are regulated by the Pravesh Niyantran Samiti (PNS), Government of Maharashtra. Every year before the commencement of the semester institute arranges orientation program for newly admitted students. The students are tracked from their previous academic performance to their current academic journey. Institute identifies the needs to address the diversified essentials of every student on the basis of their grasping and social background. The Academic Monitoring Coordinator (AMC) develops pre-defined format by which the Guardian Faculty Member (GFM) carries out the assessment of students and then categorize them into advanced, average, and slow learners. Standard teaching material is prepared so that any average learner can grasp it. This data analysis is referred by all GFMs of First year engg (FE) classes and passed on subsequently to higher classes. For higher classes individual departments carry out activities for advanced and slow learners. Motivational support is also provided for advanced learner like Extra self-learning material is made available in self-learning lab. They can test their ideas through mini-projects where faculty members provide guidance and support. Faculty members further encourage these students to increase their involvement in various R & D projects wherever possible.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Number of Students	Number of Teachers
1973	**137**

File Description	Documents
Any additional information	[View File]

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

Teaching-learning process is designed and organized considering student-centric approach. MOODLE is used in the institute as an effective learning management system which provides scope for the students to undergo self-learning, participative learning and collaborative learning to provide solutions to practical problems. Through the use of MOODLE, the faculty members encourage the students to learn and explore their knowledge in addition to classroom teaching-learning process. Learning by doing, undertaking and implementing case studies, resolving problems through Project Based Learning (PBL) are some of the approaches adopted by the faculty members to ensure student learning and attainment of Course Outcomes. Extended learning opportunities are provided to students by encouraging them to participate in activities such as projects beyond curriculum, student presentations, and participation in technical activities. Model making, circuit designing, electrical equipment repair, and code debugging types of activities are conducted in the institute for imparting real life experience. To inculcate the habit of reading and life-long learning amongst students, in every department, time slot is allocated under the supervision of the faculty member for utilizing the library effectively.

File Description	Documents
Upload any additional information	[View File]
Link for additional information	**Nil**

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

To adopt appropriate teaching methodology, the classrooms are

well equipped with ICT facilities. Use of online resources are possible as the classrooms are enabled with wi-fi facility. In-line with outcome-based education, to enhance the learning ability and inculcate the engineering knowledge, it is necessary to change the attitude towards academics by using advanced ICT tools like, Learning Management System – MOODLE, Self-learning Laboratories, Virtual Class (VC) Lectures and Online Video Recordings of theory and laboratory sessions.

ICT enabled teaching learning methods are instrumental in developing self and independent learning attitude amongst the students which can significantly augment the conventional teaching learning process. This method inculcates the habit of independent learning amongst the students through the use of self-learning laboratory. The recorded video sessions prepared by faculty members provide experience of learning rather than reading from books.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

2.3.3.1 - Number of mentors

71

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	View File
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

137

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

13

File Description	Documents
Any additional information	No File Uploaded
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

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

2.4.3.1 - Total experience of full-time teachers

592

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

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

mode. Write description within 200 words.

The institute adopts various methods to evaluate students. The quizzes, assignments, MOCK, Unit test are used for internal evaluation. This evaluation will help the students to understand how he can improve in succeeding exams. To evaluate the understanding level of student topic wise Multiple Choice Questions are uploaded on Moodle. Where time duration is provided and students attempt the MCQ test. Their ability of reasoning and understanding is judged and performance evaluated. On important topics the various assignments are given to understand clarity in concepts, problem solving as well as presentation. The unit tests are conducted on taught units by selecting the questions on course outcome based. Results of unit tests are given to students and their counselling is done for improvement in their performance. For considering the students to perform better in the Practical and oral exams the MOCK orals are conducted to understand their detailed knowledge about the topic. Seminars and project reviews are arranged on selected topics from research papers by which preference is given for recent trends in the technology. The guidance is provided for selection of topic. The performance is evaluated on the basis of content delivery, selection of topic, the presentation and answering ability.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	Nil

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

As per the Savitribai Phule Pune University (SPPU) examination , examination cell is constituted at the institute level. Grievance Redressal Cell (GRC) is constituted by the Principal. The students can approach GRC with grievances and GRC provide guidelines to the students in resolving problems.

Grievances are forwarded within the stipulated time to the SPPU. The SPPU classifies grievances and forms respective committees .The committee members are selected from the affiliated colleges on random basis , grievances are resolved by the committees and the decisions are communicated to the institute by the SPPU. The decisions are informed to the

students through examination section of the institute. In case of online examinations, if any technical problem related to system occurs, CEO of the institute, in consent with the SPPU, resolves the issues. The grievances related to internal evaluation of the institute are timely resolved by the GRC as per the guidelines laid down by IQAC.

If the claim of student related to continuous assessment , Then the claims are settled at department level, If the claims are not settled at department level, then the case is forwarded to IQAC for quality check which calls the experts from other institutes and resolves the case.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

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

Institute has sound clear Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for all programs. Teachers are familiar with POs, PSOs of the programs as they are involved in PO PSO formation process. For newly joined staff during departmental staff meeting Program outcomes (PO), program specific outcomes (PSO) and course outcomes (CO) for respective program is conveyed. Also Vision and mission of the college is discussed in those meetings. Head of the department and teachers discuss POs and frame PSOs of the programs which are in line with Graduate Attributes and Vision, Mission of the Institute. POs and PSOs are displayed for teachers and students at following locations: 1.Institute web site 2.HOD cabins 3.Notice Boards 4.Department laboratories 5.Department Library. Principal delivers address to all newly admit first year students and their parents in the induction program. During this address institute vision, mission and program objectives are stated. Every course teacher discusses expected course outcomes with students at the beginning of each semester. The MOODLE is also used to convey the COs, PSOs and POs to the students and faculty members. Every subject teacher keeps the copy of POs, PSOs and COs in their course files.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for Additional information	https://tssm.edu.in/academics/best-computer-engineering-colleges-in-pune
Upload COs for all Programmes (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

The course coordinator defines the policy for attainment of each CO through tests, mini-project, lab work and students activities to be performed by students. All questions of internal tests are mapped with COs. Being affiliated institute 60% weightage is for external tests and 40% for internal test. The performance of students in projects, lab work and student's activities are mapped with COs. Through direct tools like test, projects, performance rubric and student's portfolio, the attainment of COs is evaluated at mid semester and end semester.

Through mapped COs, the attainment of POs/PSOs is evaluated. The indirect tools like course end survey, exit survey are employed to get perception of self-evaluation. For getting overall attainment of POs/PSOs, the weightage for attainment through test is 50%, weightage for attainment through student's activity is 40% and that for indirect tools through various surveys and feedback is 10%. The assessment process resulting in attainments is evaluated by course coordinator and program coordinator and conveyed to students and parents. Based on the level of attainments, the action plan for improvement is suggested in next cycle.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	**Nil**

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

694

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://tssm.edu.in/iqac/aqar-2020-21/ceo-report.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://tssm.edu.in/iqac/aqar-2020-21/2.7.1.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

5.45

File Description	Documents
Any additional information	View File
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

4

File Description	Documents
Any additional information	<u>View File</u>
Institutional data in prescribed format	<u>View File</u>

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

9

File Description	Documents
List of research projects and funding details (Data Template)	<u>View File</u>
Any additional information	<u>View File</u>
Supporting document from Funding Agency	<u>View File</u>
Paste link to funding agency website	**Nil**

3.2 - Innovation Ecosystem

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

The knowledge and expertise available with the institute is made available to the aspirants through incubation centre, wherein, the policies are frame to provide technical and commercial support for the first generation entrepreneurs. Due care is taken by the incubator to make the availability of technical expertise, resources, and finance through its channel. The know-how of the institute in domain of legal requirements with the competent authorities to start the venture is also extended.

Initiatives like, supporting the students to develop innovative products, undertake interdisciplinary projects, involving students in R & D projects of faculty members, making the

students participate in national competitions, resolving the problems floated by companies and solving social problems through technical solutions, lead to creation and transfer of knowledge. In addition to the incubation center the institute special effort for transfer of knowledge by encouraging students to participate in various technical activities like BAJA, GoKart, SUPRA, Hackathon, Project competitions, etc. by providing financial assistance. The laboratories, workshop, library, internet is provided to the students in the extended timing. Students are felicitated at the appropriate platforms for their achievements. The successful alumni entrepreneurs are invited to interact with students and guide them to take the right direction for entrepreneurship through alumni connect program.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

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

08

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

02

File Description	Documents
URL to the research page on HEI website	https://tssm.edu.in/academics/research
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

45

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

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

3

File Description	Documents
Any additional information	**No File Uploaded**
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The institute postulate social responsibility and has policies to fulfil them. The faculty members and students of the

institute participate actively to resolve social issues within window. This helps to imbibe the social values amongst the students leading to their holistic development. To sensitize the students, institute organizes various events like, exhibiting societal problems in campus, and organizing discussions on the same. In this domain, the NSS unit of the institute plays a major role. Also, all the academic departments contribute towards the cause. Attempts are being made to exhibit the applicability of the competency and skill imparted to the students towards resolving social issues through regular academics as well as co-curricular and extra-curricular activities.

To extend the actual benefits to the society, institute has adopted Haatve and Khopi villages of Pune district. This practical approach of the Institute has resulted in positive impact on students as well as all community members, such as team work, building leadership quality, problem identification and problem solving skills. These institutional activities create a spiral eco-system for betterment of the adopted villages. Villagers understand the importance of involvement of engineers and technocrats in uplifting their lives.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	[View File](#)

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	[View File](#)
e-copy of the award letters	No File Uploaded

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

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

3

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

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

12

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

31

File Description	Documents
e-copies of related Document	*View File*
Any additional information	**No File Uploaded**
Details of Collaborative activities with institutions/industries for research, Faculty	*View File*

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

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

6

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	*View File*
Any additional information	**No File Uploaded**
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	*View File*

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Improvement in the teaching-learning process is always related by the infrastructure. Institute has already taken the care of infrastructure as per the norms. In some of the cases, the infrastructure exceeds the norms. The classrooms are available exclusively for each class/division and thus offering the additional coaching to the students through the measures like practice sessions, remedial classes, extra lectures, and expert lectures do not face any problem. Also, the exclusive availability of the classroom provides enough space for the learner to practice the things even beyond the schedule.The classrooms are well equipped with ICT facilities which aid the faculty members to adopt appropriate teaching methodology

without shifting the location to laboratory or other places.

As per norms, the need for computers to student's ratio is 1:6 which is surpassed quite ahead by our institute by making the computers to student ratio at 1:4. All the computers are in LAN and thus huge computational facility is available for those who want to utilize it.

To have interaction with large group of students or to deliver the expert lecture, requirement exists of an infrastructure large enough, which is fulfilledthrough the well designed and developed seminar halls.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

The institute focuses on overall development of the students through co-curricular and extra-curricular activities.

The institute has an open ground with provisions for sports like cricket, football, volleyball, kabaddi, and kho-kho. An exclusive basketball court is available for students. All available facilities can be used by the students at all the times other than scheduled academic activities. Indoor games like, carom, chess and table-tennis can also contribute towards developing specific attributes such as planning andintellectual thinkingamongst the students. Adequate facilities for such games are provided.

Inter-departmental sports and games competitions are frequently held in the institute.The winners in such competitions are awarded with certificates and due publicity is given to them for encouragement.

For physical and mental health, Yoga is promoted and practiced in the institute. A Yoga center is available to the students where they can practice Yoga during their free time. World Yoga Day is organized in the institute to increase awareness amongst the students.

Apart from this, college organizes various cultural events under the ambit of "Jashn-E-youth". Students are also encouraged to participate in various cultural events organized at university level, intra and intercollege events viz. Purushottam Karandak, Konkan Karandak and University Karandak.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

38

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

30.79

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

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

Main objective of the central library is to support the vision of the institute and to provide seamless access of information in networked environment. The library is fully automated using library management software 'AutoLib (V.1.0.1)'since 2013. AutoLib – is popular and advanced integrated library automation management software. AutoLib is fully integrated, versatile, user-friendly, cost-effective and multi-user software. AutoLib is equipped with different modules like Acquisitions, Cataloguing, Circulation, Serials and OPAC. Acquisitions module is used for ordering, receiving, and invoicing materials from institute vendors. Cataloguing module is used for classifying and indexing of library resources. Circulation module facilitates lending of books to users and receiving them back. This module is used for all types of counter transactions such as: Issue, Renewal, Return, Recall, Reservation, Reservation Cancel, Reminders, Overdue receipt, No-due certificate, Overdue reports and Statistical reports for all specified counter transactions. Serials module simplifies tracking of magazine and newspaper holding of the library. OPAC module facilitates easy access of available resources to the users. This module has Simple search and advanced search facility to search the database using important fields such as Accession Number, Call Number, Author, Title, Edition, Year, Publisher, Subject, Keywords, Department and Availability.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	B. Any 3 of the above

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	[View File](#)

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

27.68

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	[View File](#)
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	[View File](#)

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

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

12

File Description	Documents
Any additional information	**No File Uploaded**
Details of library usage by teachers and students	[View File](#)

4.3 - IT Infrastructure

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

The institution frequently reviews and upgrades its IT facility and has latest computing facilities which includes – hardware, software and networking. The institution plans to acquire more number of computers and related infrastructure with upgraded IT facility.

The installation and maintenance is carried out with the help of expert and dedicated system administration team of the institute.

The up gradation is carried out periodically as and when it is necessary. For example, whenever the curriculum suggested by the University changes, or when the new technology is introduced in the market and is recommended to be taught to the students.

INTERNET Facility

The institute has a 65 Mbps leased line from Teleglobal Communications Pvt. Ltd. Wi-Fi Connectivity with wireless access point (Brovis)

The institute has Zoom online application for conducting online lectures.

LAN Facility:

The institute provides Ethernet with broadband Internet facilities in all departments and office buildings. The LAN is operating with a speed of 100 Mbps with 100 BaseTX twisted pair Fast Ethernet using UTP Cat 6 cabling.

Institute has Interactive smart boards for ICT, application software and Antivirus software.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

551

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

74.70

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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.

The institute has policies for daily maintenance, preventive maintenance and breakdown maintenance.

Daily maintenance: Wherever required complete Cleaning, Lubrication, Repair, and Inspect (CLRI) procedure is adopted. Maintenance chart is filled on daily basis which is supervised by the concerned. It is ensured that no equipment/infrastructure faces emergency maintenance.

Preventive maintenance: As per the schedule, all the preventive maintenance activities are carried out resulting in upkeep of infrastructure and equipment. Before commencement of semester

the corresponding cells ensure that the infrastructures as well as laboratories are functioning correctly as per standards.

Breakdown maintenance: In case the equipment are beyond repair or have lost the significance from the perspective of utility, they are written-off through the defined mechanism of the institute.

In any of the cases, the problem is conveyed by the process owner to the maintenance team and accordingly the manpower is deputed to resolve the same.

Barring the common facilities, like, sports complex and library, every department has exclusive infrastructure with them and thus, no hurdle is faced for implementing various activities. Within the department, resource utilization plan is also developed and conveyed to the concerned so as to avoid the inconvenience and loss of academics.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1525

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	[View File](#)
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	[View File](#)

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

4

File Description	Documents
Upload any additional information	[View File](#)
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	[View File](#)

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	**B. 3 of the above**

File Description	Documents
Link to Institutional website	**Nil**
Any additional information	[View File](#)
Details of capability building and skills enhancement initiatives (Data Template)	[View File](#)

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

159

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

159

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

144

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

14

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

1

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities	

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

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

0

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at uni versity/state/national/internatio nal level (During the year) (Data Template)	<u>View File</u>

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

The institute has active Student Council. Every year, the formation of Student Council is done as per the guidelines set by SPPU. The objective behind formation of Student Council is to give an opportunity and responsibility to the students to organize various `in the institution to enhance and develop various skills like leadership quality, stage daring, social awareness and a sense of responsibility towards the society.

The Student Council is governed by the faculty members headed by the Principal.

Sports Committee in the institute organizes various sports competitions for the students that provides platform for them to participate at University and State level. . National Service Scheme (NSS) is active in conducting various social activities like blood donation camp, cleanliness camps at adopted villages, tree plantation and yoga day celebration. In this year after pandemic situation of COIVD-19, NSS has

conducted various activities regarding awareness program of Covid -19. NSS students collected database of Blood donor of around 1000 students who are ready to donate blood and submitted to university.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	**No File Uploaded**

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

0

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	[View File]()

5.4 - Alumni Engagement

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

Institute has registered Alumni Association from Assistant Charity Commissioner, Pune, with the name of "TSSM's Bhivarabai Sawant College of Engineering and Research, Narhe, Pune, Alumni Association", on 29 February 2016. The registered Alumni association number is MAHA/343/2016/Pune. The TSSM's BSCOER Alumni association formed in the Institution to satisfy following financial and non-financial assistance to attain social values by individual or by group of students associated with Alumni association.

Non-financial activities: 1. Organizing industrial visits 2. Active role in bringing up MoUs. 3. Delivering academic lectures 4. Disseminating information on current and future trends in industries 5. Contribution in laboratory development 6. Participating in curriculum development 7. Extending help for campus interviews 8. Acting as brand ambassador of the institute 9. Facilitating sponsored projects for students 10. Facilitating internships for students 11. Sharing information about higher studies 12. Guidance for co-curricular and extra-curricular activities 13. Participation in social welfare activities

Financial activities: 1. Alumni Membership of alumni association 2. Institutionalization of scholarships 3. Financial contribution towards development of academic facilities 4. Sponsoring required devices 5. Donating in kind, books, mementoes

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

5.4.2 - Alumni contribution during the year (INR in Lakhs)	D. 1 Lakhs - 3Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Vision:

To develop globally competent engineers for techno-economic development of society.

Mission:

To provide, nurture and maintain an environment of academic excellence, research and entrepreneurship for aspiring engineers to meet global challenges ethically.

The institute achieve vision by adopting effective, efficient and contemporary practices. The achievement of vision through mission and objectives is put before the stake holders effectively making the roles and responsibilities of every stake holder clear. Decentralization and operational transparency are the features of the institute. Participative management gives boost to the institute's operation.

The institute has a perspective plan in accordance with its vision. By previous experiences, stakeholders' suggestions and the changing scenario in the field of engineering, the perspective plan has been designed by our institute which includes major objectives, such as ,accreditation by national and international bodies, introducing research centres, permanent affiliation, autonomy of the institute, establishing center of excellence and foreign collaborations for higher studies and student placement.

Institute understands that better management practices and better leadership, faculty members play a vital role in institutional achievements. The faculties are contributing in various decision making bodies of the institute, such as, College Development Committee (CDC), Internal Quality Assurance Cell (IQAC), Academic Monitoring Cell (AMC), etc

File Description	Documents
Paste link for additional information	https://tssm.edu.in/iqac/aqar-2020-21/6.1.1.pdf
Upload any additional information	View File

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

1.1 Preamble:

The Institute believes that thrust of quality education which can be fulfilled through effective knowledge transformation relevant to the curriculum by introducing innovative and

creative ways of teaching, The academic monitoring committee is formed to facilitate students with a wide range of student-focused support systems and learning environments that enable them to complete their academic activities successfully.

1.2 Objectives of AMC :

1. To restructure, review, and monitor the academic activities of the graduate programme
2. To ensure that the programme not only remains competitive, but also relevant to the present context so as to enhance the emerging and contemporary issues
3. To take consistent efforts to blend the industry expectation and academic curriculum
4. To introduce innovative and creative ways in imparting knowledge and skill sets to promote academic excellence
5. To ensure overall grooming of entrepreneurial and managerial skill sets of the students

1.3 Roles & Responsibilities:

1. The AMC thoroughly works on designing the educational process
2. It continuously reviews and monitors the process, keeping in view the emerging needs and expectations of the industry
3. The AMC along with the strength of the faculty members continuously works on updating and restructuring the innovative skill sets for promoting academic excellence.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

As per the perspective plan of the institute to enhance industry-institute interaction for improving academics, research and placement activity is important. The Industry Institute Interaction Cell (IIIC) is formed at the institute

level which facilitates interaction between various organizations. Based on the departmental strengths and needs, it was planned to identify the potential organizations for signing Memorandum of Understanding (MoU) for mutual gain. IIIC has carried out online survey of various organizations to understand their scope of working, strength, and requirements. After deliberations and common consensus, decision about working on specific tasks were decided, that includes resource sharing, project reviews, sponsored projects, internships, training, and placement. The interaction of industry personnel with the students and faculty members helps to enrich the learning experience. Also, such interactions were helpful to depute the students in industries for internships which in turn, may provide placement to the students. Looking at the faculty engagement and their availability for employability skill enhancement, it was decided to have tie-up with industries in this domain. To cite the examples, Zensar ESD (Employability Skill Development) program and Barclay's Skill Development Program played vital role through MoU.

File Description	Documents
Strategic Plan and deployment documents on the website	[View File]()
Paste link for additional information	https://tssm.edu.in/iqac/aqar-2020-21/IQACAR.pdf
Upload any additional information	No File Uploaded

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

The organization chart of the institute is arranged in hierarchical structure. Where the top most authority is Governing body who takes the major decisions based on the requirements for the benefit of institute. The College Development Committee (CDC) executes the decision at institute level with the help of principal and other faculty members. All the decisions are carried in participative environment. The college has various cells for all the activities to be carried out. The cells are working in consultation with Internal Quality Assurance Cell (IQAC). Other cells of institute like Academic Monitoring Cell (AMC), Institute Research Cell (IRC), Industry Institute Interaction Cell (IIIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging cell,

alumni cell, National Social Service Cell (NSS), grievance redressal cell etc. which are functioning at institute level. Heads of the departments work in coordination with the AMC cell and with the help of teaching and nonteaching staff, the tasks are executed. IRC head arranges various programs for research activities in the institute. Office administration is done through office superintendent. The employees are benefitted with staff welfare schemes. Decentralization and participative management are achieved by this type of hierarchical structure.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	https://tssm.edu.in/iqac/aqar-2020-21/6.2.2.pdf
Upload any additional information	No File Uploaded

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

Following is the list of Welfare Schemes available in our institute:

- Provident Fund Facility for Staff
- Group Insurance for all Staff

- **Medical facility for Staff**
- **Transport Facility to staff**
- **Provision for supporting higher studies at institute of national importance**
- **Incentives for achievements for teaching and non-teaching staff**
- **Free trainings facility to staff**
- **Accommodation facility for non-teaching staff**
- **100% revenue generated out of consultancy is distributed amongst the concerned team**
- **Institute bears 100% of patent filing fees in case of joint patent with institute**
- **Provision to finance deserving activities of the faculty members**
- **Financing professional memberships of any one professional chapter**
- **Financing the faculty membership who act as faculty advisor of student chapters**

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	[View File](#)

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

6

File Description	Documents
Upload any additional information	[View File](#)
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	[View File](#)

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

15

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

52

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

Performance appraisal system is implemented as per the guidelines of UGC where all the aspects required to evaluate faculty performance like Teaching learning, co-curricular, extra-curricular activities, research component are incorporated appropriately. Recently, the Academic Performance Index (API) is introduced online. Based on API, institute decides corresponding line of action like, rewards, recognition, training to the faculty members in identified domain or the notices for improvment .The faculty got the direction to work with target. They are on their own seek guidance and training to fulfill their tasks. By the end of the year, faculty members are supposed to fill the API and provide the proofs for their claims. These claims are verified by the HOD. Further, these evaluations are evaluated by the Principal and the remarks are given for management consideration.

Similar online performance appraisal system is existed to evaluate the performance of non-teaching staff. Their performance is evaluated against their defined portfolio. The staff provides the data online, is verified by the concerned superior. The superior provides the remarks. Finally, the performance of is evaluated by the Principal.

Thus system of online performance evaluation provides effectiveness and transparency in the process.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Institution believes that it has effective and robust in-house mechanism for financial audit. However, like to have opinion of third party too. Till date institutional financial audit is carried out by Chartered Accountant (CA) by Corporate Office.

The observations and comments of CA are taken into

considerations and implemented immediately. Similarly financial assistance and remuneration received from SPPU is separately audited by external CA and audited balance sheet is submitted to SPPU for the approval.

The funds received from non-governmental organization (Consultancy, Resource sharing) is separately deposited and utilized for said activity. This account is separately audited and report is submitted to respective non-government organization for information.

All the departments having departmental association where students contribute for department specific co-curricular and extra-curricular activities. This account is also audited and audited balance sheet is displayed on notice board for information of all students.

Funds received from reservation are required to distribute all the students in their account. This account is also verified and audited by government regularly.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

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

0.00

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Apart from the funds received by the institute through fees collection, funds are mobilized as per the policy defined by the institute as follows:

1. Fund mobilization for co-curricular and extra-curricular activities through university schemes.
2. Fund mobilization for student projects and student oriented mega activities through corporate CSR schemes and sponsorships from private and public organizations.
3. Fund mobilization to support needy students through university schemes like "Earn and Learn", donations by philanthropists, scholarships and free ships from government schemes and NGOs.
4. Financial contribution of alumni for institutional development

Forthcoming part highlights the procedure adopted for fund mobilization and utilization.

1. The concerned individual/section/department of the institute raises the fund requirement beyond the allocated budget due to additional, un-planned/urgent activity.
2. The demand is noted by the Principal and is forwarded to Fund Mobilization Committee (FMC) which scrutinizes the requirements and prepares the proposal for submission to appropriate agencies.
3. On receiving the funds, as per the directives of the funding agency, the funds are handed over to the seeker and its utilization is monitored closely.
4. The fund utilization also gets audited in institutional audit.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

1. **Laboratory Preparation:** IQAC has recommended to implement a scheme called "Laboratory Preparation". This scheme would ensure correct functioning of all the instruments and setups, availability of standard results of the experiments validated by the corresponding faculty members, availability of required setup as per curriculum fulfilling the need of pre-requisite and gaps, if any. Also, the scheme demands to have the operational procedures displayed near setups/along with setups so that it becomes guide for the students for conducting the experiments on their own. This will provide opportunity to the students to conduct the experiments of his choice under supervision of faculty.

2. **Faculty Development Program:** The faculty members must be aware of contemporary requirements. However, the schedule of the institute and the university related work makes faculty schedule very tight. Taking into account these two factors, IQAC has recommended to impart training to the faculty members at institute itself rather than deputing individual or few faculty members at other locations.

3. **Digital Content Development:** The facility for digital content development is made available at the institute to all the facultes through DCD cell. The developed digital content is made available to the beneficiary via Moodle & Department YouTube Channel.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	[View File]()

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Taking into account the need of society and learner, Internal Quality Assurance Cell has decided to bring-in reforms in teaching learning process. Following are the cases:

Enhancement of course file: The effectiveness of teaching-learning process is contributed by faculty preparation for the given set of students. While developing the course file, it

should address the need of self-learning of the students, need of the students with read and write style, observe and learn, and experience and learn. The items like, tier assignments, case studies, video links, reflect coverage of all categories of teaching and learning tools. The important part of the course file is teaching learning plans, assessment methodology and tool being adopted by the faculty members.

Use of interactive digital teaching learning material: The institute has decided to switch over from traditional teaching learning process to student centric system. Therefore the institute created infrastructure for developing such material and is made available at the institute: this includes hardware, like, high end multimedia PCs, softwares like, Raptivity, high end DSLR cameras. By using this of developed infrastructure, training is imparted and the support extended, faculty members have designed and developed excellent highly interactive teaching learning material.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	B. Any 3 of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://tssm.edu.in/iqac/aqar-2020-21/IQACAR.pdf
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The Institute has constituted the distinct view of education from gender perspective namely knowing gender equality and its rich methods of exposure and spreading awareness regarding gender rights, equity and equality, to build moral value based education system that inculcates right ethics and morals based on righteousness of conduct and sense of responsibility of every action.

In emergency 24*7 Institute has its own Ambulance Facility in the campus. Anti-Ragging committee and Women grievance cell are active in the institute to resolve students' grievances.

The institute is having separate boys and girls hostel inside the gated premises with supervision of rectors. Ladies and gents' security guards are working 24X7. Institute campus including main gate, corridors, examination section, and entry of all buildings, canteen, library and hostels are monitored by CCTV cameras.

Common Room: As per the AICTE norms institute is having separate girl's common room, and boy's common room. In case of medical emergency separate sick room is available along with all necessary facilities.

Counseling: Through Guardian Faculty Member (GFM) Institute provides academic, co-curricular and extra-curricular activity

counseling of the students regularly.

File Description	Documents
Annual gender sensitization action plan	https://tssm.edu.in/iqac/aqar-2020-21/7.1.1-plan.pdf
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://tssm.edu.in/iqac/aqar-2020-21/7.1.1-facilities.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	**A. 4 or All of the above**

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	**No File Uploaded**

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Solid Waste:

Institute is having contract with external agency for solid waste disposal. Remaining solid waste is collected in common pit for environment friendly disposal. Biogas plant is installed in the institute for canteen (kitchen) solid waste management. Institute takes initiative to segregate solid waste into different buckets viz. plastic pens, refills, water bottles, natural waste, stationary papers.

Liquid Waste:

There is no hazardous liquid waste generated in the institute. Used oils/coolant in workshop and different departmental

machines are collected and disposed off separately.

Sewage Treatment Plant (STP) of 500kLD is available in the campus and recycled water is use for gardening purpose. Also hard water generated from water treatment (RO) plant is used for gardening purpose.

E-waste Management:

Electronic and computer accessories which are write-off by respective department sold to licensed vendor. Efforts are taken to ensure national e-waste policy implemented by vendor during write off.

The non-working computer spare parts, electronic scrap components and other nonworking equipments are used for display purpose in order to explain configuration/inside view to the students which they used to study in their theory lectures.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geo tagged photos / videos of the facilities	[View File](#)
Various policy documents / decisions circulated for implementation	[View File](#)
Any other relevant documents	**No File Uploaded**

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	[View File](#)
Certification by the auditing agency	[View File](#)
Certificates of the awards received	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for	**A. Any 4 or all of the above**

persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment   5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen   reading

File Description	Documents
Geo tagged photographs / videos of the facilities	[View File](#)
Policy documents and information brochures on the support to be provided	[View File](#)
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

We believe in unity in diversity that's why our students respect the different religion, language and culture. We greet and wish each other at different festivals and invite them to have a feast to get introduced with ones culture to have amicable relations and to maintain the religious, social and communal harmony. Similarly our students also celebrate the different festivals with joy and enthusiasm which help them to implant the social and religious harmony. The diversity in India is unique. Being a large country with large population. India presents endless varieties of physical features and cultural patterns. It is the land of many languages it is only in India people professes all the major religions of the world. To represent our Indian culture, on the eve of our college annual gathering we organize a traditional dress competition and fashion show. In this competition students wore the different attire representing the different states, religions and cultures. Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. This also creates the inclusive environment in the college and society.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Our institution takes all possible initiatives in organizing various events and program for molding the students and staff to become responsible citizens of the country by sensitizing them to the constitution of the country. The college encourages the students to take part in blood donation camps, study tours for them that make them understand the importance of protecting the cultural heritage of the country. Singing of national anthem in the campus to bring a feeling of patriotism among all is practiced. The students also being the responsible citizens take many community services and provide services to mankind and society. The students have taken up many cleanliness drives inside the campus and nearby villages. The students have also taken up Plantation drives to provide a clean and green environment for all. Swachh Bharat Abhiyan has also been an important initiative taken up by the college where we have organized an awareness rally for the students and took a tour in entire town to create awareness among all. Republic day is celebrated on 26th Jan by organizing activities highlighting the importance of Indian Constitution. Independence Day is also celebrated to highlight the struggle of freedom and the importance of Indian constitution.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://tssm.edu.in/iqac/aqar-2020-21/7.1.9-values.pdf
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and	**A. All of the above**

conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	View File
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Republic Day and Independence Day: Every year institute celebrates Republic Day and Independence Day. We dedicate these days to all those brave leaders and freedom fighters who gave freedom to our country. The program starts with Flag Hosting followed by National Anthem.

Mahatma Gandhi Jayanti: Mahatma Gandhi is referred to as National Father who devoted his whole life preaching Truth and following Ahimsa. The NSS volunteer organizes the mass pledge in institute in accordance with the Prime Minister's urge for 'Swaachh Bharat Abhiyaan'.

Shiv Jayanti: Institute celebrates Shivaji Maharaj Jayanti every year to commemorate our respect towards Maharaj and to encourage the students about the sacrifice for nation & the management policies used in that era.

Ganesh Chaturthi: Our institute celebrates Ganesh Chaturthi for the duration of five days with full fervour. The visarjan is magnificent with students dancing on beats of dhol-tasha pathak

and walking towards to immerse the figurines.

Along with this institute used to organized programs on the birth/death anniversaries of great indian personalities like Dr. B R. Ambedkar the writer of Constitute of India, Sir Vishveshwarayya an eminent engineer, on Engineer's Day, etc. and national festivals like Dasara, Diwali, etc.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	[View File](#)
Geo tagged photographs of some of the events	[View File](#)
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

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

??????Title of the practice - 1:Multilevel Monitoring of Students

Objectives:

- To monitor and provide support for improving academic performance
- To nurture the conducive environment for their multidimensional development by providing relevant guidance
- To mentor the students for their behavioral, professional and personality development
- To improve interpersonal connectedness with teachers and peers
- To enlighten the students on professional ethics and social awareness
- To provide emotional support to individuals in consultation with the parent

Title of the practice - 2:In-house Development of Digital Teaching-Learning Resources

  1. Objectives

- **The major objective of the practice is to develop digital teaching-learning resources and provide an open platform to make those available through the use of ICT enabled technologies.**
- **To provide a platform for knowledge transformation and live interaction with experts through video conferencing facility**
- **To inculcate habit of independent learning amongst the students through the use of self-learning laboratory**
- **To provide experience of learning rather than reading from books by referring exclusively recorded video sessions prepared by faculty members.**
- **To provide easy interface of the developed digital resources through QR codes**

The details about these best practices are available at:https://tssm.edu.in/iqac/naac/best-practices

File Description	Documents
Best practices in the Institutional website	https://tssm.edu.in/iqac/naac/best-practices
Any other relevant information	**Nil**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

The institute has established Professional Skill Development Center (PSDC) which identifies the industry with requirement on specific skillset. PSDC then prepares MoU between institute and the industry. The institute and industry involve their experts to train the graduating students on specific skillsets required by industry. Institute has affiliated with international certifying organizations based on training skills.

Computer Department conducted workshop on "Rasberry PI Programming. Established MOU with Trishta Global privet limited on manual and Automation software testing provide internship and employment in Trishta Global. The institute is affiliated to international Software Testing qualifier board. 6 Students were trained and accepted internship in software testing. Infosys Talent Acquisition Certificate Examination computer and

EnTc department organizes Python Programing workshop.

Department of Mechanical Engineering conducted Seminar on Opportunities to mechanical engineering students in Government Jobs. Also on 'How to Crack MPSC Exams' conducted by Ignite Academy Pune. Online session conducted on 'Introduction to CAD Software' Conducted by CAD Center Pune.

Department of EnTC Engineering Organized a Three days workshop on The workshop on Patent Publish and Grant.

Civil Engineering students Participated in project competition 'CIVIL WITcher' organized by Institute of engineers at walchand Institute of technology.

File Description	Documents
Appropriate web in the Institutional website	[View File](#)
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The current year has witnessed many changes with reference to physical to digital teaching learning processes on account of Covid-19 pandemic. Thus, in the coming academic year, it is proposed to follow a blended mode for teaching learning. Also the New Education policy emphasizes on interdisciplinary approach and skill based education. Accordingly, the SPPU has taken the cognizance of it and implemented the same while revising the syllabi of existing courses. In continuation to this faculty members are motivated to complete related NPTEL/MOOC/ATAL courses to keep pace with the changing technologies. Considering the necessity of skill based training, it is decided to develop in-house facilities. For example, a new laboratory devoted to Electric Vehicles and Charging Infrastructure is proposed. This will also create the in-house internship opportunities for students. Also faculty member with PG degree are motivated to register for PhD.

An appointment of External student training agency will help to enhance qualitative based placement of students. Also an Accommodation of open source integrated library system like KOHA will help better management of library. Information about funding agencies will enhance the number of research proposals to be submitted. Research publications in referred journals

will indirectly boost the quality of teaching.