

# Yearly Status Report - 2018-2019

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 own campus	Yes		
Phone no/Alternate Phone no.	020-24608500		
Mobile no.	9764560690		
Registered Email	principal@tssm.edu.in		
Alternate Email	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		
Pincode	411041		

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Atul Prakashchandra Khatri
Phone no/Alternate Phone no.	02024608500
Mobile no.	8149424224
Registered Email	atulkhatri.bscoer@gmail.com
Alternate Email	atul.khatri1@gmail.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	<u>https://tssm.edu.in/naac-ssr</u>
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://tssm.edu.in/storage/PDF/IQAC/20 18-19/1.1.1.pdf

# 5. Accrediation Details

Cycle	Grade	CGPA	Year of Validit		ity		
			Accrediation	Period From	Period To		
1	A	3.08	2019	15-Jul-2019	14-Jul-2024		
6. Date of Establishment of IQAC 28-Jun-2016							
7. Internal Quality Assurance System							

Quality initiatives by IQAC during the year for promoting quality culture				
Item /Title of the quality initiative by IQAC	Number of participants/ beneficiaries			
Expert lecture on IPR- Vortex connector	10-Mar-2018 1	34		

Expert lecture on Requirement of filing a copyright application IPR in India	08-Sep-2018 1	36
PCB Making Workshop	21-Sep-2018 10	40
Multi-Criteria Decision Making Methods and Optimization Techniques (MDMMOT- 2018)(Two days National Workshop)	28-Dec-2018 2	60
Two days state level workshop on recent challenges on electric and hybrid vehicles.	03-Jan-2019 2	30
FDP on Java Programming	10-Dec-2018 6	21
FDP on Cyber Sucrity	06-May-2019 6	53
Experiment Explore and Enhance	03-Dec-2018 5	15
Electrical Safety Week	07-Mar-2019 1	35
ICRIET-19	15-Feb-2019 2	162
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# 8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Departmen t/Faculty	Scheme	Funding Agency		Year of award with duration	Amount
Civil Department/ Prof. A. P. Khangan	ASPIRE	BCUD		2018 730	180000
Mechanical Engineering/ Prof. S. V. Pawar	ASPIRE	BC	UD	2018 730	150000
		<u>View File</u>			
. Whether composition of IQAC as per latest IAAC guidelines:			Yes		
Upload latest notification of formation of IQAC			<u>View</u>	File	
10. Number of IQAC meetings held during the /ear :			2		

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<u>View File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	Ио

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

• Focus on enhancement of quality of course material • Industry institute interaction using concept of one faculty one industry relation. • System for record keeping and maintaining the documents. • Skill development and training program for students to increase the placements. • Training program for non teaching to enhance personal skills

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# 13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes		
To enhance the quality of course file.	Due to the improved quality of course file the result has improved.		
Competitive exam and aptitude training to the students for increasing placement of the students for Government sectors.	Coaching for competitive exams was given to the students and with interview technique which increased the placement and job opportunity for the students in Government sectors.		
To enhance the technical skill of staff members.	Due to this student's placement, job opportunity and the count of industry sponsored project has increased.		
To enhance the Industry Institute Interaction.	Due to the Industry Institute Interaction the placement of the students was increased.		
To increase the number of students internship training.	The internship training count of students has increased.		
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14. Whether	AQAR wa	s placed	before statutory	
body ?				

Yes

Name of Statutory Body	Meeting Date
College Development Committee	05-Oct-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?¥	les .
Date of Visit 1	L2-Jul-2019
16. Whether institutional data submitted to Y	Zes
Year of Submission 2	2019
Date of Submission 0	06-Feb-2019
17. Does the Institution have Management Information System ?	/es
currently operational (maximum 500 words)	The institute has Management Information System called eSamanway which is developed inhouse. This system eases the maintenance of faculty pullification, experience, Project guidance details, etc. The system has student information module which contains the academic and personal information about the students. This module turns out to be extremely useful for the Guardian Faculty Member (GFM) Scheme for tracking student attendance and academic progress as well as for the result analysis. Following modules are available in eSamanway: 1. Course Information System 2. Placement Information System 4. Faculty Information System 5. Student Scheme for effective information management. In addition to these, the Directorate of Technical Education (DTE), Maharashtra facilitates the admissions process. The Savitribai Phule Pune University (SPPU) provides support for online record keeping of student assessment and results.

## Part B

## **CRITERION I – CURRICULAR ASPECTS**

## 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

A quality plan is prepared by institute through Academic Monitoring Committee (AMC) and Internal Quality Assurance Cell (IQAC). The targets and the benchmarks for the academic year are set by the IQAC. • The institute academic calendar in line with Savitribai Phule Pune University (SPPU) academic calendar is prepared by AMC. Further it is approved by Principal for implementation. • The department academic calendars are prepared by department AMC coordinators. These calendars are comprised of co-curricular and extra-curricular activities at department level. It is verified and approved by Head of the Department (HOD). • Institutional preparation is ensured at three levels viz., faculty, laboratory and departmental preparation. • The theory and practical load is distributed on the basis of experience, expertise and choices given by faculty members. Further it is communicated to faculty members through department AMC. The necessary formats for record keeping are made available to faculty members. The course files are prepared by faculty members as defined by AMC. • Then the learning material is made available for students through Learning Management System (LMS)-MOODLE before commencement of semester. All the students are enrolled for respective courses on MOODLE and access is provided to them. • At department level, time table is prepared by departmental time table coordinator. It is verified and approved by HOD. • The course files are verified by AMC for correctness and completeness before commencement of semester. • The department AMC monitors day to day lecture/practical throughout the semester. Teaching plan implementation is monitored weekly by HOD and fortnightly by Dean Academics. The deviation, if any, is corrected. • Students are categorized into academically weak and strong category and are imparted training accordingly. During semester, continuous assessment of students is carried out through direct and indirect means. • Expert lectures, workshops and seminars are arranged to reinforce curriculum, and students are motivated to undertake mini projects wherever required as per subject plan. • The faculty members are motivated for adoption and usage of Information and Communication Technologies (ICT) tools, project based learning, blogs for respective courses, and experiential learning. • Evaluation of each student is conducted through unit tests, prelims as per institute's academic calendar and in semester, end semester examinations as per prescribed structure of SPPU. Results are discussed with students and remedial actions are taken for improvements. • 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.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year								
Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development			
PCB designing and making	Nil	15/01/2019	10	Employabil ity	Skill Development			
Drafting tools	Nil	04/02/2019	15	Employabil ity	Skill Development			
Auto CAD 2013	Nil	09/08/2018	10	Employabil ity	Skill Development			
JAVA foundation	Nil	18/03/2019	15	Employabil ity	Skill Development			
Auto CAD	Nil	12/01/2019	5	Employabil ity	Skill Development			
Hecras	Nil	12/07/2018	9	Employabil	Skill			

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

1				ity	Development	
Raspberry	Nil	20/01/2019	5	Employabil	Skill	
Pi				ity	Development	
Programming and Project						
Building						
Software	Nil	04/06/2018	16	Employabil	Skill	
Testing				ity	Development	
PLC	Nil	07/07/2018	10	Employabil ity	Skill Development	
				ity	Development	
.2 – Academic Flexibil	-					
1.2.1 – New programmes		_	-			
Programme/Cou		Programme Spec		Dates of In	troduction	
No Data	Entered/1	Not Applicable !!!				
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1.2.2 – Programmes in wh ffiliated Colleges (if applic			BCS)/Elective	e course system impl	emented at the	
Name of programmes CBCS	adopting	Programme Spec	alization	Date of imple CBCS/Elective		
No Data	Entered/1	Not Applicable !!!				
I.2.3 – Students enrolled	in Certificate	e/ Diploma Courses intro	duced during	the year		
		Certificate	)	Diploma	Course	
Number of Stude	ents	832		N	il	
.3 – Curriculum Enrich	ment					
1.3.1 – Value-added cours		ng transferable and life sk	ills offered du	ring the year		
Value Added Cou	· ·	Date of Introdu		Number of Stu	dents Enrolled	
REVIT Struc		12/07/2			46	
Stadd -Pi					±0 39	
		12/07/2				
Entrepreneu		07/01/2			15	
Leadership personality deve		24/09/2	018		20	
Mobile mak	ing	21/08/2	018		22	
Network adminis	stration	12/03/2	019		24	
Product Life Management(P		14/01/2	019		68	
Computer aided planning	process	10/08/2	018		48	
Basic MATI	LAB	05/02/2	019		63	
Eplan softw	ware	05/07/2	018		76	
		<u>View Fi</u>	<u>le</u>			
1.3.2 – Field Projects / Int	ernships un	der taken during the year	-			
Project/Programm	· · ·	Programme Spec		No. of students e	enrolled for Field nternships	

BE	Civil Engineering	258		
BE	Computer Engineering	85		
BE	BE E&TC Engineering			
BE	Electrical Engineering	12		
BE	Mechanical Engineering	224		
Iti are Tri la				

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## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

#### Feedback Obtained

Feedback Process in Institute: The institute has a well-defined, effective, transparent, efficient and appropriate feedback process. Institute assures effective execution of the feedback system. IQAC and AMC defines the feedback forms including aspects like content delivery, curriculum, curricular and extracurricular activities, placement activities and mentoring. After designing these forms are uploaded on MOODLE. The notification is sent to stakeholders including students, faculty, alumni, parent and industry person about the feedback. The stakeholders fill the feedback in online mode through moodle. Every department analyses the feedback received from stakeholders and it is reviewed by AMC and HoD at department level. Necessary action is taken at department level on the feedback received by stakeholders and an action taken report is prepared. The action taken reports of all departments are uploaded on institute website. The information about the feedback is given to IQAC for further action. During this feedback process institute takes feedback from all stakeholders periodically viz. from students four times a year, from faculty members two times a year, from parent, alumni and industry person once a year. The feedback process of the institute - 1. Provides the platform to the stakeholders in identifying a greater role in the teaching -learning process, 2. Develops a sense of responsibility and belonging to the institution among the stakeholders, 3. Provides opportunities to modify and rearrange the course contents based on students' constructive suggestions 4. Helps the teachers modify and improve their teaching methodologies, 5. Establishes a transparent communication channel between the students and the teacher, and 6. Maintains the functioning of teaching-learning process in the best possible way.

## **CRITERION II – TEACHING- LEARNING AND EVALUATION**

## 2.1 – Student Enrolment and Profile

## 2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engineering	126	54	54

BE	Comput Engineer:		63		53	53				
BE	BE Electronics and Telecommuni cation Engineering		63		35	35				
BE	BE Mechanical Engineering		126		64	64				
BE	Electri Engineer:		60		29	29				
ME	Construc Manageme		24		24	24				
ME	Comput Engineer:		24		7	7				
ME	Signa Processi		24		3	3				
ME	Desig Engineer:		24		1	1				
ME	Power Sy	stem	24		11	11				
-	Student Diversity Ill time teacher ration Number of students enrolled in the institution (UG)	o (current year da Number of students enrolled in the institution (PG)	Numbe fulltime tea	achers in the ion nly UG	Number of fulltime teachers available in the institution teaching only PO courses	teaching both U and PG course				
2018	1967	86	12		20	Nill				
3 – Teaching - L	earning Process									
.3.1 – Percentage	of teachers using lo		aching with L	earning	Management Sy	stems (LMS), E-				
Number of Teachers on Roll	Number of teachers using ICT (LMS, e- Resources)	ICT Tools and resources available	Number o enable Classro	ed	Numberof smar classrooms	t E-resources and techniques used				
145	145	10	32	2	6	12				
	File of ICT	Tools an	d reso	ources						
	View File of E-resources and techniques used									
	<u>View Fil</u>		2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)							
			ution? Give c	letails. (	maximum 500 wo	ords)				

scheme, every batch of 20 to 25 students is assigned a guardian faculty, generally denoted as GFM. The GFM acts as a local guardian to the students, most of which are coming away from their parents from remote locations in Maharashtra to the institute for education. The GFM supports the students on academic, personal as well as emotional fronts. The GFM also remains well connected with the parents of every student. This helps to establish healthy relations between teachers, students and parents. The GFM maintains a portfolio of every student which contains the progress and achievements of every student related to regular academics and competitions and participation in technical, social, cultural and sports activities. During every activity, may it be curricular, co-

curricular or extra-curricular, the GFM provides a bridge to the students to reach the desired destination. The GFM motivates and supports the students for participation in various such activities. The institute tries to implement most of its student related activities and policies through the GFM so that it provides a parentally guidance and support to the students. The GFM also keeps track of the day to day activities of students and if any irregularities are found, counsels the student with the help of his/her parents and the institute counselor. With the effective and efficient implementation of the student mentoring system, the students feel safe, supported, and capable of solving academic and professional challenges.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2056	145	1:14

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers ap	ppointed during the year
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No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
145	145	Nill	31	15

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Ganesh Arunrao Hinge	Principal	Life Fellowship of Indian Water Resources Society
2018	Kishore Gandhare	Assistant Professor	Life Fellowship of Indian Water Resources Society
2018	Dr. Satish Narayanrao Gujar	Professor	Patent titled: IVA System Intelligent vehicle alert System For U- Turn and Seize Notification (Publication Number 201821025144)

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
BE	664919110	I/2018-19	29/12/2018	12/02/2019
BE	664919110	III/2018-19	13/12/2018	12/02/2019
BE	664919110	V/2018-19	12/12/2018	12/02/2019
BE	664919110	VII/2018-19	11/12/2018	01/02/2019
BE	664919110	II/2018-19	28/05/2019	05/10/2019

BE	664919110	IV/2018-19	29/05/2019	09/10/2019		
BE	664919110	VI/2018-19	28/05/2019	09/10/2019		
BE	664919110	VIII/2018-19	27/05/2019	09/10/2019		
ME	664921010	ME I/2018-19	27/12/2018	18/03/2019		
ME	664921010	ME III/2018-19	22/12/2018	18/03/2019		
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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

For every learning to check the outcome , there is requirement of accessing the students. So that we can understand the weakness and strong part of students. Institute has kept various methods to judge the students like tests assignments, group discussions, MOCK Oral, practical, presentations, reviews etc. The students will goes through this various techniques and teacher will understand how to improve the quality of students. The unit tests are conducted for all subjects after completing the required syllabus. The test results are displayed and students examined. The results are discussed with students personally and given a suggestion on how to present, the required contents. The improvement is checked in the next tests. The assignments are given to students on different topics , so that can write in his own language after understanding. By understanding the need of students the number of tests are conducted in Multiple Choice Question format. The various MOCK tests are conducted to understand the their knowledge about the topic. The students perceptive and intellectual ability is checked. The method will provide the information to teacher about the thorough understanding of topics by students. The judged students are given the marks according to his ability. These performance will encourage the students to achieve the good marks and knowledge about the topics in next tests. Similarly for understanding about current technology and advancements the seminars and project topics are chosen. The ability of students are judged by their presentation skill, contents, delivery and question answer sessions. These techniques will help the students to face confidently the university oral practical and theory exams.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Every semester institute prepares the academic calendar for proper conduction of academic activity. To prepare academic calendar institute refers the university published calendar every semester. In the preparation of academic calendar the principal and dean academics academic monitoring committee plays important role. The prepared academic calendar is discussed with all Head of Departments and if any changes are required are updated and final academic calendar is prepared. The all department also prepares their own department academic calendar by referring the institute level academic calendar. Every department having the Department Academic Coordinator for smooth execution of academics at department level with the help of HOD and staff. The academic calendar is made available to the students at the beginning of each semester. The monitoring and execution of activities included in the academic calendar as per formed followed through out the semester. The audits are conducted at college level by dean academics and department academic coordinator. The audit report contains about the teaching, unit test conduction, Course file, assessment, teacher feedback by students, academic progress, and curricular activities. The audit findings are discussed with the respective HOD and through the HOD the improvements are done at department level with help of department academic coordinator. In the next audit previous lacunas are checked about their improvements. Separate counseling is provided to students for the

## academic improvements and it is monitored. At department level various activities shown in the calendar are conducted and their report are prepared and maintained at department level.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.tssm.edu.in/storage/PDF/IQAC/2018-19/2.6.1.xlsx

## 2.6.2 - Pass percentage of students

		-					
Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage		
664919110	BE	Civil Engineering	131	105	80.15		
664924510	BE	Computer Engineering	124	121	97.58		
664937210	BE	Electronics & Telecommun ication Engineering	37	35	94.59		
664929310	BE	Electrical Engineering	62	62	100		
664961210	BE	Mechanical Engineering	217	191	88.02		
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.tssm.edu.in/storage/PDF/IQAC/2018-19/2.7.1.pdf

## **CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION**

## 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.9	0.9
Minor Projects	365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.7	0.7
Minor Projects	365	Bhairavnath Sugar Works Ltd. Osmanabad,	0.85	0.85

365	Bhairavnath Sugar Works Ltd. Osmanabad,	0.9	0.9
	Maharashtra		
365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.55	0.55
365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.7	0.7
365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.9	0.9
365	Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra	0.85	0.85
730	ASPIRE (Assistance by SPPU for Project-based Innovative Research)	1.8	0.9
730	ASPIRE (Assistance by SPPU for Project-based Innovative Research)	1.5	0.75
	365 365 730	Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra730ASPIRE (Assistance by SPPU for Project-based Innovative Research)730ASPIRE (Assistance by SPPU for Project-based Innovative Project-based Innovative	Maharashtra365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.7365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.9365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.85365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.85365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.85365Bhairavnath Sugar Works Ltd. Osmanabad, Maharashtra0.85730ASPIRE (Assistance by SPPU for Project-based Innovative Research)1.5730ASPIRE (Assistance by SPPU for Project-based Innovative Research)1.5

## 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Multi criteria Decision Making and Optimization Technique	Mechanical Engineering	28/12/2018
PCB Making Workshop	Electronics and Telecommunication Engineering	21/09/2018
Patent publish	Computer Engineering	10/08/2018
Paper publications and patent file	Civil Engineering	03/07/2018
Patent file	Electrical Engineering	17/09/2018
Patent publish and grant	Electrical Engineering	08/01/2019

Bluetooth com									
using A		Electronics and Telecommunication Engineering		20/02/2019					
Patent	ngineerir	gineering 26/		26/11	/2018				
Patent p	publish	Mechanical	Engineeri	.ng		12/01	/2019		
Paper public patent		Mechanical	Engineeri	.ng		16/02	/2019		
3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year									
Title of the innovation	on Name of Aw	ardee Awarding	g Agency	Dat	e of award		Category		
	No	Data Entered/N	ot Applic	able	111				
		No file	uploaded	•					
3.2.3 – No. of Incuba	ation centre create	ed, start-ups incubat	ed on camp	us durir	ng the year				
Incubation Center	Name	Sponsered By	Name of Start-u		Nature of up	Start-	Date of Commencemer		
	No	Data Entered/N	ot Applic	able	111				
		No file	uploaded	•					
.3 – Research Pub	blications and A	wards							
3.3.1 – Incentive to t	he teachers who	receive recognition/a	awards						
Stat	te	Nati	onal In		Interna	ational			
1		3	3 0			)			
32-Ph De awar	ded during the yea	ar (applicable for PC		esearch	(Center)				
		a (applicable for t C	b Concyc, rtt	5000101					
	ne of the Departm	· · ·			ber of PhD	D's Awar	ded		
		· · ·					ded		
Nam	ne of the Departm 0	nent		Num	nber of PhD		ded		
Nam	ne of the Departm 0 ublications in the J	nent		Num e during	nber of PhE Ni the year	11			
Nam 3.3.3 – Research Pu	ne of the Departm 0 ublications in the J	ent ournals notified on l	JGC website	Num e during	nber of PhE Ni the year	11	e Impact Factor (		
Nam 3.3.3 – Research Pu Type	ne of the Departm 0 ublications in the J onal Civi	ournals notified on to Department	JGC website	Num e during of Publi	nber of PhE Ni the year	11	e Impact Factor ( any)		
Nam 3.3.3 – Research Pu Type Internatic	ne of the Departm 0 ublications in the J onal Civi onal En	lournals notified on l Department .1 Engineering Computer	JGC website	Num e during of Publi 9	nber of PhE Ni the year	11	e Impact Factor ( any) 6.35		
Nam 3.3.3 – Research Pu Type Internatic Internatic	ne of the Departm 0 ublications in the J onal Civi onal En onal En onal Ele	ent ournals notified on l Department .1 Engineering Computer ngineering Electrical	JGC website	Nurr e during of Publi 9 20	nber of PhE Ni the year	11	e Impact Factor (i any) 6.35 5.87		
Nam 3.3.3 – Research Pu Type Internatic Internatic	ne of the Departm 0 ublications in the J onal Civi onal En onal Ele Teleo En	ent ournals notified on l Department .1 Engineering Computer agineering Electrical agineering ectronics and communication	JGC website	Num e during of Publi 9 20 8	nber of PhE Ni the year	11	e Impact Factor (i any) 6.35 5.87 3.78		
Nam 3.3.3 – Research Pu Type Internatio Internatio Internatio	ne of the Departm 0 ublications in the J onal Civi onal En onal Ele Teleo En	ent ournals notified on 0 Department .1 Engineering Computer agineering Electrical agineering ectronics and communication agineering Mechanical agineering	JGC website	Num e during of Publi 9 20 8 8	nber of PhE Ni the year	11	e Impact Factor (i any) 6.35 5.87 3.78 1.27		
Nam 3.3.3 – Research Pu Type Internatio Internatio Internatio	ne of the Departm 0 ublications in the J onal Civi onal En onal Ele Teleo En onal I	ent ournals notified on 0 Department .1 Engineering Computer ngineering Electrical ngineering ectronics and communication ngineering Mechanical ngineering View Volumes / Books pu	JGC website Number of	Num e during of Publi 9 20 8 8 8 4	ber of PhE Ni the year cation	Average	e Impact Factor (i any) 6.35 5.87 3.78 1.27 0.94		
Nam 3.3.3 – Research Pu Type Internatio Internatio Internatio Internatio 3.3.4 – Books and C	ne of the Departm 0 ublications in the J onal Civi onal En onal Ele Teleo En onal I	ent ournals notified on 0 Department .1 Engineering Computer ngineering Electrical ngineering ectronics and communication ngineering Mechanical ngineering View Volumes / Books pu	JGC website Number of	Num e during of Publi 9 20 8 8 8 4 4	ber of PhE Ni the year cation	11 Average	e Impact Factor (i any) 6.35 5.87 3.78 1.27 0.94 ational Conference		
Nam 3.3.3 – Research Pu 3.3.3 – Research Pu Type Internation Internation Internation Internation 3.3.4 – Books and C Proceedings per Tear	ne of the Departm 0 ublications in the J ublications in the J ublications in the J conal Civi conal Civi conal En conal Electron conal Electron conal Electron conal Electron conal En conal En cona cona	ent Cournals notified on I Copartment I Engineering Electrical agineering ectronics and communication agineering Mechanical agineering Viev Volumes / Books puear	JGC website Number of	Num e during of Publi 9 20 8 8 8 4 4	the year cation	11 Average	e Impact Factor (i any) 6.35 5.87 3.78 1.27 0.94 ational Conference		

Elect	ronics Teleo Engineeri	communication	nication 10					
E	lectrical En	gineering		8				
Me	echanical En	gineering				26		
			<u>View</u>	<u>File</u>				
3.3.5 – Bibliomet Neb of Science c		ations during the n Citation Index	last Aca	ademic y	vear based on av	verage citation in	dex in Scopus/	
Title of the Paper	Name of Author	Title of journal	Yea public		Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation	
Study on carbon epoxy composite surfaces machined by abrasive water jet machining	A. D. Dhanawade, Shailendra Kumar	Journal of Composite Materials	2	018	3	TSSMs BSCOER, Pune	3	
Multi-pe rformance optimizati on of abrasive water jet machining of carbon epoxy composite material	A. D. Dhanawade, Shailendra Kumar	Internat ional Journal of Engineerin g and Material Sciences (IJEMS)	2	018	2	TSSMs BSCOER, Pune	2	
Review For Face Detection Methods Used In ANN	Ashvini E. Shivdas, Neha .Agashe, Arti S.Jaibhai	Internat ional Journal Of Current En gineering And Scientific Research (IJCESR)	2	018	0	TSSMs BSCOER, Pune	Nill	
Review on Visual Informatio n Extraction and Repres entation for Content Based Image Retrieval	V.G. Kottawar	Internat ional Journal of INTELIGENT SYSTEMS AND APPLIC ATIONS (IJISA)	2	018	0	TSSMs BSCOER, Pune	Nill	

Estimation of software d evelopment using Function	M. K. Kodmelwar	Sciences and Engine ering	2018	0	TSSMs BSCOER, Pune	Nill
Point						
	<u>()</u>		<u>View File</u>			
3.3.6 – h-Index o	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
AN INNOVATIVE SIMULATION APPROACH TO IMPROVE THE ELECTR OCHEMICAL MACHINING PERFORMANC E	D S Bilgi	Journal of Aerospace Engineerin g Technology	2018	5	Nill	TSSMs BSCOER
Multi-pe rformance optimizati on of abrasive water jet machining of carbon epoxy composite material	A D Dhanwade	Indian Journal of Engineerin g and Materials Sciences (IJEMS)	2018	5	2	TSSMS BSCOER
Transfor merless Buck-Boost DC-DC Converter	S G Kanade, A P Kinge	2018 IEEE Global Conference on Wireless Computing and Networking	2018	2	2	TSSMs BSCOER
Crow search algorithm with discrete wavelet transform to aid Mumford Shah inpainting	P M Patil	Evolutio nary Intel ligence	2018	17	1	TSSMs BSCOER

	•	View	/ File				
.3.7 – Faculty participation i				<u> </u>			
Number of Faculty	International	Natio	onal	State	I	Local	
Presented papers	92	N	ill	Nill		Nill	
		View	<u>r File</u>				
4 – Extension Activities							
.4.1 – Number of extension on- Government Organisation					•	-	
Title of the activities	Organising unit/ collaborating a		particip	r of teachers ated in such ctivities	Number of participate activi	d in such	
Cleaning of Classrooms	National S Scheme (N			6	2	25	
Rally on Health Awareness and Cleanliness	National S Scheme (N			4	2	25	
Guest Lecture on Different Govt. Schemes	National S Scheme (N			4	2	25	
Cleaning of surrounding area of School and Temple	National Servic Scheme (NSS)		5		2	25	
Guest Lecture on History of Village	National Service Scheme (NSS)			3	2	25	
Repairing of Old Computer in School	National Service Scheme (NSS)		-		4	2	25
Guest Lecture on Bio-Diversity	National S Scheme (N			3	2	25	
Survey of Village		National Service Scheme (NSS)		5	2	25	
Guest Lecture on Iraditional Musical Instruments and Languages	National S Scheme (N		4		2	25	
Quiz competition for school children	National S Scheme (N			б	2	25	
		<u>View</u>	<u>r File</u>				
.4.2 – Awards and recogniti iring the year	on received for ext	tension act	ivities from (	Government and c	other recognize	ed bodies	
Name of the activity	Award/Recog	Inition	Award	ling Bodies	Number of Bene		
NSS Camp at Bhukum, Tal. Mulshi, Dist. Pune	Letter Bhukum, Tal.		Bhukum, Tal.		25		

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites					
Education Awarness Program	National Service Scheme (NSS)	Survey of Village	5	23					
Education Awarness Program	National Service Scheme (NSS)	Guest Lecture on Bio- Diversity	6	25					
Education Awarness Program	National Service Scheme (NSS)	Repairing of Old Computer in School	б	22					
Education Awarness Program	National Service Scheme (NSS)	Guest Lecture on History of Village	б	22					
Swachh Bharat Sarvekshan 2019	National Service Scheme (NSS)	Cleaning of surrounding area of School and Temple	5	21					
Education Awarness Program	National Service Scheme (NSS)	Guest Lecture on Different Govt. Schemes	5	24					
Swachh Bharat Sarvekshan 2019	National Service Scheme (NSS)	Rally on Health Awareness and Cleanliness	б	25					
Swachh Bharat Sarvekshan 2019	National Service Scheme (NSS)	Cleaning of Classrooms	5	23					
Mock CET Entrance Examination for Engineering Aspirants	TSSMS BSCOER	Mock CET Entracnce Examination for Engineering Aspirants	30	34					
How to Achive MHTCET Exam Score from Takalakar classes	TSSMS BSCOER	MHTCET Score Guidance	25	40					
View File									

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Collaborative research - Paper published in 2018 IEEE Global Conference on	Ravindra Sadashivrao Apare, JJT University, Rajasthan, India and Dr. Satish	Parent institutes	180

Wireless Comput and Networkir (GCWCN) Resear Issues in Priv Preservation in	ng BSCOER rch acy	anrao Gujar, , Pune, India				
Collaborati research - Pap published in Internationa Conference on I Next Generati Networks Clou Computing 201 (ICINC-2018) Su on Privacy Preservation Internet of Thi	er Sadasl JJT I Rajas IoT, and on Naray Id BSCOER I8 rvey in	Ravindra hivrao Apare, University, sthan, India Dr. Satish anrao Gujar, , Pune, India	Parent	institutes		180
Collaborati research - Pap published ir Internationa conference A r technique fo measuring disch through compou broad crested w	per Kulkan n and D l Hin new BS0 r arge und	Ketaki H. rni, MIT Pune r. Ganesh A. ge, TSSM's COER, Pune	Parent	institutes		180
Collaborati research - Pag published ir Internationa Journal Multi performance optimization abrasive water machining of ca epoxy composi material	of jet rbon	D. Dhanawade, BSCOER, Pune . Kumar, NIT Surat	Parent	institutes		180
Collaboration research - Pag published in Internationa Journal An Innovative Simulation Appro to Improve th Electrochemic Machining Performance	per BSC h Sachi l S. Avina Bhart: coach Pu he al	Bilgi, TSSM's OER, Pune, n S. Chavan, T. Chavan, sh M. Pawar, i Vidyapeeth, ne, India	Parent institutes			180
3.5.2 – Linkages with in			<u>7 File</u> on-the- job tr	aining, project v	vork, shar	ing of research
acilities etc. during the	Title of the linkage	Name of the partnering institution/ industry	Duration F	rom Durati	on To	Participant

			/research lab with contact details				
Internship	Im <u>r</u> Trai	olant ning	Kelkar Auto Parts Pvt. Ltd	22/12/2018	31/1	2/2018	Students
Internship	Imp Trai	olant ning	Paradise Engg Works	18/12/2018	06/0	1/2019	Students
Internship	Imp Trai	olant ning	Associate Robotics	13/12/2018	13/0	1/2019	Students
Internship	Im <u>r</u> Trai	olant ning	Suryakant Automobiles	15/12/2018	05/0	1/2019	Students
Internship	Im <u>r</u> Trai	olant ning	Bharat Forge Ltd Pune	09/08/2018	30/0	3/2019	Students
Internship	Im <u>r</u> Trai:	olant ning	Mackrish Electronics Pune	01/08/2018	17/0	1/2019	Students
Internship	Im <u>r</u> Trai:	olant ning	Uni Fab Industries	17/12/2018	15/0	1/2019	Students
Internship	Im <u>r</u> Trai:	olant ning	Kirloskar Brothers Ltd	19/12/2018	08/0	1/2019	Students
Internship	Im <u>r</u> Trai	olant ning	Vitthal Cooperative Lt	01/01/2019	15/0	1/2019	Students
Internship	Im <u>r</u> Trai	olant ning	Phavi Engineers	15/12/2018	30/1	2/2018	Students
			View	<u>v File</u>			
.5.3 – MoUs signe buses etc. during tl		titutions o	f national, internatio	onal importance, oth	ner univer	sities, ind	ustries, corporate
Organisatio	n	Date	of MoU signed	Purpose/Activities		Number of students/teachers participated under MoUs	
Mane Indust Pune	Mane Industries, 16/02/2018 Pune		To Conduct training and other activities required for skill development in MEP domain.			43	
	Techno CAD CAM 06/03/2018 tions Pvt. Ltd. Pune		06/03/2018	For enhancing quality of engineering education b imparted to students	of ng eing the		51
JNC Technol	ogies,	ies, 06/03/2018		Workshop			50

Microcontroller

Applications

mongoDB and NoSQL

To Conduct

43

11/03/2018

Pune

Industries, Pune

Thorat

		training and other activities required for skill development in BackEnd domain		
Seinumero Nirman Pvt Ltd. Pune	07/04/2018	For enhancing the quality of engineering education being imparted to the students	20	
Phadtare Fabtech Pvt Ltd Pune	09/04/2018	For enhancing the quality of engineering education being imparted to the students	82	
Sunrisers Energy Solutions Pvt. Ltd.	09/04/2018	Guest Lecture on Renewable Energy	67	
Budhale Industries, Kolhapur	08/05/2018	To Conduct training and other activities required for skill development in MEP domain	75	
Palo Alto Networks Cyber Security Academy	02/07/2018	Training on quality control,industrial visit	90	
Red-Hat Academy	26/10/2018	To Conduct training and other activities required for skill development in MEP domain	40	
	View	<u>v File</u>		
CRITERION IV – INFRAS	TRUCTURE AND LEAR	NING RESOURCES		
4.1 – Physical Facilities				
4.1.1 – Budget allocation, exc				
Budget allocated for infra	-	Budget utilized for infrastructure development		
	.81		.39	
4.1.2 – Details of augmentatio				
Facili		Existing or N		
	hers ch Wi-Fi OR LAN		sting	
	rtant equipments r than 1-0 lakh)	Existing Newly Added		
Value of the equ	ipment purchased	Newly	Added	

during	the year	(rs	. in lakhs)					
	Video	Cen	ltre		Existing			
Seminar	halls wi	th :	ICT facilit	ies		1	Existing	
	Campu	is Ai	rea			1	Existing	
	Class	s roo	oms			1	Existing	
	Labor	ator	ies			1	Existing	
	Semina	ar Ha	alls			1	Existing	
Classr	ooms wit	h LC	D facilitie	s		1	Existing	
	<u>View File</u>							
4.2 – Library as	a Learning	Res	ource					
4.2.1 – Library is	automated {	(Integ	rated Library M	anagem	ent Syst	em (ILMS)}		
Name of the software		Natu	ire of automatio or patially)	n (fully		Version	Year of	automation
Auto	Lib		Partiall	У		v.1.0.1		2013
4.2.2 – Library Se	ervices	-			-			
Library Service Type		Existi	ing		Newly	Added	То	tal
Text Books	13509	•	9 4255567		25	90321	13534	4345888
Reference Books	4080		1819811	N	i11	Nill	4080	1819811
e-Books	Nill		Nill	27	000	182900	27000	182900
Journals	Nill		Nill	1	.21	399506	121	399506
e- Journals	Nill		Nill	2	193	1173656	2193	1173656
CD & Video	1164		11640	5	599	5990	1763	17630
		<b>I</b>	No	file	upload	led.		
4.2.3 – E-content Graduate) SWAY (Learning Manage	AM other M	DOCs	s platform NPTE			•		•
Name of the	Teacher	N	lame of the Moo	dule	Platform on which modu is developed			launching e- ontent
P.B.Lonka	r		igh Perform puting	ance	Mood	dle-LMS	22/05/	2018
S. N. Guj	ar		bject Orien gramming	ted	Moodle-LMS		25/05/	2018
S B. Kara	le	Pro	ystem gramming an rating Syst		Mood	dle-LMS	13/12/	2018
A. D. Guj	ar	Co Lab	omputer Gra	phics	Mood	dle-LMS	14/12/	2018
S. V. Ing	ale	C	loud Comput	ing	Mood	dle-LMS	12/12/	2018

e-LMS e-LMS e-LMS e-LMS e-LMS e-LMS 18 0 18 eased line)	Departments 651 17 668	28/05/2018 09/12/2018 24/05/2018 14/12/2018 28/05/2018 28/05/2018 Available Bandwidt h (MBPS/ GBPS) 65 0 65	8 8 8
e-LMS e-LMS e-LMS e-LMS 0 18 0 18	Departments 651 17 668	24/05/2018 14/12/2018 28/05/2018 28/000 28/05/2018 28/0	8 8 Others 0
e-LMS Office	Departments 651 17 668	e Available Bandwidt h (MBPS) 65 0	8 8 Others 0 0
e-LMS Office 18 0 18	Departments 651 17 668	Available Bandwidt h (MBPS/ GBPS) 65 0	8 Others 0 0
Office 18 0 18	Departments 651 17 668	e Available Bandwidt h (MBPS/ GBPS) 65 0	Others 0 0
18 0 18	nts 651 17 668	Bandwidt h (MBPS/ GBPS) 65 0	0
18 0 18	nts 651 17 668	Bandwidt h (MBPS/ GBPS) 65 0	0
18 0 18	nts 651 17 668	Bandwidt h (MBPS/ GBPS) 65 0	0
18 0 18	nts 651 17 668	Bandwidt h (MBPS/ GBPS) 65 0	0
0	17 668	0	0
18	668	-	
		65	0
eased line)			
		and media ce cility	entre and
ttps://y	routu.be	/O LvHs-W	<u>D6w</u>
ttps://y	routu.be	/0NGE8xcY	<u>tzU</u>
https://youtu.be/r663pMIhrvA			
d academic	support fa	cilities, exclu	ding sala
		•	f physical
64.16		62.0	)5
	https://y https://y https://y d academic ed budget c ical facilities 64.16 l, academic rords) (informance, pre ever require is add	https://youtu.be         https://youtu.be         https://youtu.be         d academic support fa         ded budget on         ical facilities         64.16         l, academic and support fa         ance, preventive         ever required correr is adopted.	d academic support facilities, exclu ned budget on ical facilities facilities facilite

per the schedule, all the preventive maintenance activities are carried out resulting in upkeep of infrastructure and equipment. Also, it helps to ensure availability of infrastructure for ready use. Preventive maintenance is carried out under supervision of maintenance cell. The corresponding records are maintained in designed formats. Before commencement of semester the corresponding cells ensure that no preventive maintenance activity is pending and the infrastructures as well as laboratories are functioning correctly as per standards. Breakdown maintenance: In case of breakdown, alternate arrangement for the required infrastructure and the equipment is made so as to avoid hampering of activities. In case, if the maintenance is beyond the reach of maintenance cell, then the work is outsourced to third party. 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. Due care is taken to write-off environmentally sensitive material. 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. It is expected that the process owner should certify satisfactory condition of infrastructure or that of equipment after maintenance thereby closing the case. Also, the provision of dead-stock verification helps to identify the availability and loss of equipment. The process of dead-stock verification is carried out twice in a year by the designated committee. Utmost care is taken to maintain conducive environment in library. Annually, stock taking is mandatory process for library. The printed periodicals accumulated during the year are bound together so as to prolong their life and avoid loss. Also, after inspection of all the books, the identified books are re-bound. In case of loss

of book, the books heeds to be replaced by the user. With respect to utility of the infrastructure and all other facilities, planning is carried out before commencement of semester at central level. 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.

https://www.tssm.edu.in/storage/PDF/IQAC/2018-19/4.4.2.pdf

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

## 5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees			
Financial Support from institution	0	0	0			
Financial Support from Other Sources						
a) National	Scholarship/Frees hip/EBC/Lila Poonawala foundation	1556	80804110			
b)International	0	Nill	0			
<u>View File</u>						

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved

Remedial Coaching - Engineering Mechanics	06/02/2019	22	TSSMS BSCOER			
Remedial Coaching - Basic Electrical Engineering	05/02/2019	25	TSSMS BSCOER			
Remedial Coaching - Engineering Chemistry	04/02/2019	25	TSSMS BSCOER			
Remedial Coaching - Engineering Mathematics I	04/02/2019	25	TSSMS BSCOER			
Remedial Coaching - Engineering Chemistry	04/09/2018	17	TSSMS BSCOER			
Remedial Coaching - Engineering Mechanics	06/09/2018	29	TSSMS BSCOER			
Remedial Coaching - Basic Electrical Engineering	05/09/2018	24	TSSMS BSCOER			
Remedial Coaching - Engineering Mathematics II	03/09/2018	22	TSSMS BSCOER			
Python Training	05/06/2019	45	Profound			
Barclays Softskill Training	21/01/2019	620	Barclays			
<u>View File</u>						

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

 and a damage the	<b>y</b>		-	-	
Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Career Counselling Sesssion On Software Testing	Nill	14	Nill	4
2018	Guest lecture on Geotechnical Engineering (Retaining Wall Design)	Nill	145	Nill	5
2018	Guest Lecture on Disaster & management	Nill	150	Nill	4

·					
2018	Career Guidance for Preparation for NICMAR	150	Nill	1	3
2019	Demo session on different design courses	Nill	122	Nill	17
2019	Expert lecture on Competitive examination	60	Nill	3	Nill
2019	Career counseling by mr. Sachin Chitapure	Nill	52	Nill	22
2018	Guidance for GATE exam by alum ni-Akshay Palkar	85	Nill	2	Nill
2019	Career counseling by Mr. U. K. Shinde	Nill	55	Nill	24
2019	Career counselling session on data science	Nill	109	Nill	42
		<u>View</u>	<u>File</u>		
5.1.4 – Institutional r harassment and rage			dressal of student (	grievances, Preven	tion of sexual
Total grievand	ces received	Number of grieva	ances redressed	Avg. number of da redre	
Nj	ill	N	ill	N	ill
5.2 – Student Prog	ression				
5.2.1 – Details of ca	mpus placement de	uring the year			
	On campus			Off campus	
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Xoriant, Paramatrix, Amazon, Asset Analyti, Cuelogic	1154	123	TCS, Wipro, Infosys, Bitwise	768	279
		<u>View</u>	<u>/File</u>		

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to	
2018	2018 1 BE Civil Engineering		Civil Engineering	Walchand College of Engineering, Sangli.	MTech (Er ironmental Engineering	
2018	1	BE Civil Engineering	Civil Engineering	MIT , World Peace University, Pune.	MBA (Huma Resource)	
		BE Civil Engineering	Civil Engineering	TSSM's Bhivarabai Sawant College of Engineering & Research, Narhe, Pune-41	M.E. (Cor truction Managment)	
2018	1	BE Mechanical Engineering	Mechanical Engineering	Stevens Institute of Technology	MS in Industrial Engineerin	
2018 1		BE Mechanical Engineering	Mechanical Engineering	TSSM's Bhivarabai Sawant College of Engineering & Research, Narhe, Pune-41	ME Design Engineering	
		View	<u>v File</u>			
	alifying in state/ nat/ /GATE/GMAT/CAT/					
	Items		Number of students selected/ qualifying			
	NET		Nill			
	SET		Nill			
	SLET		Nill			
	GATE		2			
	GMAT		Nill			
	CAT			Nill		
GRE				2		
	TOFEL			3		
Civil Services				Nill		
	Any Other			1		

	Activity		Level			Number of Participants		
Bo	x Cricket		Institute			156		
Cultural Jashna -E - Youth			Institute			250		
Annual Sports Institute						22	0	
<u>View File</u>								
3 – Student P	Participation and	Activities						
	of awards/medals a team event shoul			sports/cultu	iral ac	tivities at natior	al/internation	
Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number awards fo Cultural	or	Student ID number	Name of the student	
2019	Best Play and First Prize, Raj Sanman Karndak (State Level)	National	Nill	1		6732	Shraya Deshmukh	
2019	Runner Up, Lokmanya Tilak Karndak (I nter- College)	National	Nill	1		5450	Akshsy Jadhav	
2018	Second Prize, Sarpotdar Karandak ( Inter- College)	National	Nill	1		5766	Omkar Yadav	
2019	Winner, Rajveer Trophy	National	1	Nill	L	1455	Sourab Tambhakh	
	110pm		<u>View File</u>					

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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 activities in the institution to enhance and develop various skills like leadership quality, stage daring, social awareness and a sense of responsibility towards the society. Students also get an opportunity to work in team and get a platform to express their views and showcase their talent and creativity. The Student Council is governed by the faculty members headed by the Principal. The mechanism of formation of Student Council includes the following steps: 1. Notice is circulated amongst the students by Students Welfare Officer regarding submission of application for various posts of Student Council. 2. After receiving the applications for the different posts meeting is conducted by the Principal consisting of Head of Departments Student Welfare Officer providing information of various posts and selection criteria followed by scrutiny of applications received from students for various posts. 3. Notice is displayed by Students Welfare Officer on notice board containing list of shortlisted candidates interviews are scheduled for the same. 4.Student Welfare Officer along with the panel conducts interviews of

shortlisted candidates based on their overall academic performance, participation in various curricular extracurricular activities, leadership qualities, social connectivity etc. 5.Based on the interview performance the students are selected and the council is formed. Once the Student Council is formed, it plays a vital role in solving issues at Institute and University level and acts as a mediator between the Institute and students. Every year Student Council organizes various cocurricularand extra-curricular activities in the Institute. Sports Committee in the institute organizes various sports competitions for the students that provides platform for them to participate at University and State level. The institute helps to form various departmental chapters, professional chapters in each department. It provides platform for students to develop event management skills and team work. The institute has various administrative bodies like entrepreneurship development cell library committee in which students are active members. 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. The Cultural Committee of Student Council also ensures to provide platform for students to participate in cultural activities like annual gathering, Purushottam Karandak, Konkan Karandak. Every year the institute organizes a National level technical symposium namely Technovision, where students presents their technical skills in the events like paper presentation, project exhibition, Robo Race, circuit designing, technical quiz and many more. The institute provides support to organize various social activities like Green Pune Clean Pune, traffic awareness programs, PUC camp, Blood donation camp to enhance student social responsibilities.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

#### Yes

Institute has registered Alumni Association under Assistant Charity Commissioner, Pune, in the name of "TSSM's Bhivarabai Sawant College of Engineering and Research, Narhe, Pune, Alumni Association", dated 29th February 2016. With registration number MAHA/343/2016/Pune. Institute arranges Alumni meet once in an academic year in which alumni addresses the juniors and updates their information available with organization. The objectives of TSSM's BSCOER Alumni association formation are: 1.To avail financial and Non-financial assistance by individuals or by group of students who are associated with Alumni association. 2. For interaction of existing students with Alumni. 3. To encourage the Alumina for the development of the institute. 4. To deliver academic lectures for students on topics of interest 5.To deliver lectures on career guidance 6.To encourage students of the institute for Research and Development. 7. Promotion of Industry Institute interaction cell to bridge the gap between current engineering education and future trends in industries 8.Contribution in laboratory development 9.To support in Organizing industrial visits. 10.Participating in curriculum development 11.Extending help for campus interviews 12. Active role in bringing up MOUs. 13. Acting as brand ambassador of the institute 14.Facilitating sponsored projects for students 15.Facilitating internships for students 16.Sharing experiences with students 17.Sharing information about higher studies 18.Guidance for co-curricular and extracurricular activities 19. Participation in social welfare activities Apart from the above Non-financial aids the Alumni Association is also supporting

institute with some financial ways such as: 1.Membership of alumni association 2.Donation towards development activities - 1 (Printer Scanner) 3.Institutionalization of scholarships 4.Financial contribution towards development of academic facilities 5.Sponsoring the events rewards 6.Donating in kind, books, mementoes. 7.Avail sponsorship to deserving students for higher education and sports. This way Alumni can help or guide the existing students by financial and non financial way. More than 300 students are presents for the Alumni meet.

5.4.2 – No. of enrolled Alumni:

#### 2078

5.4.3 – Alumni contribution during the year (in Rupees) :

151500

5.4.4 - Meetings/activities organized by Alumni Association :

1. Alumni connect - 29 December 2018 - 400 alumni members attended

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Academic Monitoring Committee: 1.1 Preamble: The institute has constituted academic monitoring committee 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. 1.4 Committee Hierarchy: AMC is headed by Academic Dean Academics and supported by department level academic coordinators. The representative from each department acting as Departmental Academic Coordinator is the member of AMC. All coordinators are involved in policy making process. Class teachers Teacher Guardians (Guardian Faculty Members) are pillars of AMC. All Teachers are responsible for implementing AMC policy in all academic activities. There are various subcommittees involved to carry out smooth conduction of academic activities like Time Table coordinator , Exam coordinator, Parent Teacher Meet coordinator, Student Feedback coordinator, Guest lecture coordinator and Department MOODLE portal coordinator. Budget Preparation: Budget for the the institution is prepared before start of each academic year. It involves following sections:Salary,Administrative expenses,Training and Development, Laboratory Consumables, Library, Travel, Fees Paid to University/ Board/ Government/AICTE, Repairs and Maintenance, Scholarships/ Concessions/ Fellowships/Honorarium etc, Depreciation etc. Organization designs its programs and activities on the basis of budget. It is based on organization goals and major objectives. The policies and programs are largely depend on state government. On the basis of guidelines given by the management each head of the

department prepares department budget. Allocation is discussed with The head of the institution and then send for the final approval. All the departments send budget to the finance and account section. 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."Dr. Punjabrao Deshmukh Vastigruh Nirvah Bhatta scheme" for student accommodation 5.Financial contribution of alumni for institutional development.

6.1.2 – Does the institution have a Management Information System (MIS)?

#### Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admissions are done through centralized admission process (CAP) at various stages following the process of allotment as per Candidature Type, Sanctioned Intake and Supernumerary Seats for various Courses, Allocation of Seats, Reservations and Eligibility Criteria by Government of Maharashtra, State Common Entrance Test Cell. Document Verification is done at College Facilitation Centers Admissions in Institutional Quota and vacant seats after CAP are filled following process given by Director Technical Education (DTE). After completion of Admission process institute submit the Admission- approval proposal to the DTE and the Admission Regulating Authority.
Industry Interaction / Collaboration	The Industry Institute Interaction Cell (IIIC) Incharge guide the activities strategically through online survey, enhance and improve academics, research and placement activity. This facilitates strong association with industrial, academic and research establishments. There are active MOUs, which benefits the students to give realistic exposure through industrial visits, sponsored projects, expert lectures, etc. Based on feedback mechanism of industry requirement through TPO, industries are identified through IIC and communication was initiated on mutual convenience and need to work on specific tasks that include resource sharing, expert

	lectures, sponsored projects, publications in association with industrial experts, industrial visits, internships, training, and placement.
Human Resource Management	To serve overall growth of the institute adequate human resources are provided. Governing body takes the decisions as per the requirements and executes through the College Development Committee (CDC) and faculty members in decentralized and participative environment. The Internal Quality Assurance Cell (IQAC) controls Academic Monitoring Cell (AMC), Institute Research Cell (IRC), Industry Institute Interaction Cell (IIIC), Entrepreneurship Development Cell (EDC), examination cell, anti-ragging cell, etc. Heads of the department work in coordination with the AMC. IRC in- charge gives the inputs of various programs/events of research activities. Office administration is done through office superintendent.
Library, ICT and Physical Infrastructure / Instrumentation	The 693 square meters fully automated central library with Autolib- library management system with barcode technology and reading room acts as a premier Learning Resource Centre for students. The Library has well stacked collection of reference books, textbooks, handbooks with 4651 titles and 17589 volumes, 110 print journals , periodicals, magazines also e-journals and CDs. The library has institutional membership of e-shodhsindhu, National Digital Library, ProQuest e-books and British Library. The digital has 10 independent machines and provides access to all the e-contents of Springer, Science Direct (Elsevier), ASCE, ASTM and ProQuest e-Books. The annual budget was Rs 1690558.11.
	BSCOER practices research and is facilitated through Institutional Research Cell (IRC) to promote research, product development and entrepreneurship related activities. BSCOER is the approved research centre to pursue doctorate in Civil Engg. and E TC Engg. and at present three candidates are pursuing research. The Institution has to its credit four patents and 13 are filed. The grants of Rs 11.5 lakhs was sanctioned from Board of College and University Development (BCUD) up till. The institution is also

	actively involved in extension activities to address various societal issues through NSS.
	Examination and evaluation process of the institute are under the control of affiliating university SPPU examination unit. In institute examination process and applicable part of evaluation process is under supervision of BSCOER Principal through college examination officer. For end semester examination BSCOER CEO (will act as custodian) will receive the question paper online, print and handover to examination block supervisor along with blank answer sheets. SPPU appoints external senior supervisor during the period of examination. CEO sends the answer sheets at prescribed CAP centre. Malpractice cases are forwarded to university. SPPU generates the result sheets and announce the result.
Teaching and Learning	Student in the institute use ICT tools in a dynamic environment. The institute attempts for change of student understanding by using concept lab, museum and self learning facilities. MOODLE platform provides the student the complete repository of learning material and provides tool for continuous internal online quiz/assignment/test evaluation and records . The best practices successfully implemented by the institution are Mentor-Mentee scheme, Multilevel Monitoring Development of Digital Teaching-Learning Resources. Academic monitoring committee (AMC) decides the various policies and academic formats for proper implementation and through audits of academics and improve based on interaction and feedback with parents, alumni.
Curriculum Development	Institute is affiliated to Savitribai Phule Pune University (SPPU) and follows the prescribed curriculum and evaluation pattern for the outcomes of the learning experience. University revise the curriculum and evaluation pattern periodically to add the gap if any and to upgrade the quality considering the feedback from major stakeholders and reduces the gap of industry institute and also follows the mandate of the AICTE. Faculty members of the institute are actively involved

in various academic and evaluation activities of curriculum development. The exposure to the industry is provided through industrial visits, expert lectures, value addition courses, in-plants training, sponsored projects.

E-governace area	Details
Planning and Development	1.E-Samanway E-Samanway Software implemented in the college from year 2016.This software Eases to maintain faculty personal details including faculty qualification, experience Project guidance details etc. 2.Microsoft Desktop Education: This License Software is utilized since 2011.Faculty members, students, staff utilizes all the features of software like operating system, word, excel, power point, servers, etc.
Administration	<pre>1.Autolib: Autolib-Library Management Software purchased in 2010.This software is utilized for to search, issue and return the books and generating relevant reports. 2.Microsoft Desktop Education: This License Software is utilized since 2011.Faculty members, students, staff utilizes all the features of software like operating system, word, excel, power point, servers, etc. 3.AICTE Institute Portal: This portal is used for approval process , PG scholarships funding for various programs like FDP STTP Research promotion schemes, MODROB, Student Internship. 4. AISHE Institute Portal: This portal provide the facility to the institute to portray the status of higher educatio through an annual web-based All India Survey on Higher Education (AISHE) since 2010-11.</pre>
Finance and Accounts	<ol> <li>Tally ERP 9 is accounting softwar purchased in 2010. It is used for finance and accounting purpose and to generate the relevant reports.</li> <li>Microsoft Desktop Education: This License Software is utilized since</li> <li>Faculty members, students, staft utilizes all the features of software like operating system, word, excel, power point, servers, etc.</li> </ol>
Student Admission and Support	1. MOODLE-In-house It is a Learning Management Software used to enhance

	<pre>teaching learning process. It is used for providing course material in the form of notes ,PPTS, videos question banks and also for continuous assessment of the students. 2.DTE The Directorate of Technical Education in Maharashtra confirms the policies, rules, guidelines and strategies for engineering admission process formulated by the Central and State governments. 3.Microsoft Desktop Education: This License Software is utilized since 2011.Faculty members, students, staff utilizes all the features of software like operating system, word, excel, power point, servers, etc.</pre>
Examination	1. MOODLE-In-house It is a Learning Management Software used to enhance teaching learning process. It is used for providing course material in the form of notes ,PPTS, videos question banks and also for continuous assessment of the students. 2. OMS Support -Savitribai Phule Pune University, Pune, - Exam Section (SPPU) SPPU Provides support for conduction of online examinations for assessment of students and declares result.

## 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

-				
Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Sourabh Kulkarni	Ecologyical and Energy Efficient RAC	NA	1000
2018	Mandar Mokashi	Two days Conclave on Incubation Innovation and Linkages	NA	500
2018	Rutuja Shinde	FDP on Data Analytics	NA	1000
2018	V. A. Gajdhane	STTP Intelligent Soft Computing Techniques	NA	600
2018	A. N. Kshirsagar	STTP Intelligent Soft Computing Techniques	NA	600

	2018			A. N. rsagar		SPPU Subjec Workshop: mbedded RTOS		NZ	4		450		
	2018		V.V.Mał	lindrakar	ma	Advances in terial, mich achining and management practices	ro	NZ	7		500		
	2018		V. N	1. Bhedi	Two Days workshop at YCE Nagpur		NA		3000				
	2018		R.S.	. Kognole	Flu I Sił of	Effective Teaching thodology i uid Mechanic (20-21 Dec 2018) at angad Colleg Engineerin adgaon Pune	cs Je	NZ	7	100		1000	
	2018		A. P.	. Khangan	Flu I Sił of	Effective Teaching thodology i uid Mechanic (20-21 Dec 2018) at angad Colleg Engineerin adgaon Pune	cs Je	NZ			1000		
						<u>View File</u>							
		-		evelopment / uring the year		ninistrative traini	ng	programmes	organized	by the	College for		
Yea	ar	profe devel prog orgar	e of the essional lopment ramme hised for ing staff	Title of the administrativ training programme organised fo non-teachin staff	ve e or	From date		To Date	Numbe participa (Teach staff	ants ing	Number of participants (non-teaching staff)		
20	)18		NA	Advance Microsof Excel		24/08/2018	24	/08/2018	Ni	11	18		
20	)18		NA	PCB Making Workshor		21/11/2018	23	/11/2018	Ni	11	18		
20	)18	Exp a	riment olore and ance	NA		03/12/2018	08	/12/2018	1!	5	Nill		
20	)18	Java	DP on Progr ming	NA		10/12/2018	15	/12/2018	2:	1	Nill		

2018	Multi- Criteria Decision Making Methods and Optimi zation Techniques (MDMMOT- 2018)(Two days National Workshop)	NA	28/12/2018	29/12/2018	60	Nill
2019	Two days state level workshop on recent challenges on electric and hybrid vehicles.	NA	03/01/2019	04/01/2019	30	Nill
2019	NA	Industrial Safety Week	07/03/2019	07/03/2019	Nill	35
2019	One week FDP on Cyber Security	NA	06/05/2019	11/05/2019	53	Nill
	-	-	<u>View File</u>	-		
6.3.3 – No. of tea Course, Short Te					entation Progra	mme, Refresher
Title of the professiona developmer programme	al who nt	of teachers attended	From Date	To da	te	Duration
Facult Orientati Workshop SPPU: Mobi	on by ile	1	13/12/2018	3 14/12	/2018	2

SPPU: Mobile Communication				
STTP Intelligent Soft Computing Techniques	2	10/12/2018	14/12/2018	5
Ecologyical and Energy Efficient RAC	1	07/06/2018	09/06/2018	3
Advances in Material, micro machining and	1	26/11/2018	30/11/2018	5

Insurance for a Medical facil Staff, Free tr facility to st	ll Staff, ity for rainings	for Staff, P: supporting hi at institute importance, for achieve	rovision f gher stud of nation Incentive	for lies hal es			
Provident Fund for Staff,	-	Group Insur Staff, Medic					Checkup, Book bank
Teaching	J	Non-tea	aching			Students	3
6.3.5 – Welfare scheme	es for						
Nill		145	1	Nill			90
Permanent		Full Time	Perm	nanent			Time
	Teaching	·	,		Non-teach	ina	
6.3.4 – Faculty and Stat	ff recruitment (n	o. for permanent re	ecruitment):				
		View	<i>r</i> File				
SPPU Subject Workshop: Embedded RTOS	1	12/0	7/2018	12	/07/2018		1
FDP on Laboratory Practice 3	1	18/1:	2/2018 19/12/201		/12/2018		2
Two days FDP on introduction to R programming	1	29/03	29/08/2018		/08/2018		2
Two days FDP on Introduction to Mobile App Development	2	11/0	6/2018	12	/06/2018		2
FDP on Java Fundamentals and programming	2	19/1	1/2018	23	/11/2018		5
FDP on Data Analytics	1	22/0	6/2018	23	/06/2018		2
management practices							

percent revenue generated for achievements for out of consultancy is teaching and non-teaching distributed amongst the staff, Free trainings concerned team, Institute facility to staff bears 100 percent 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

## 6.4 – Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

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. 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 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. Fund generation through Internal Revenue Generation (IRG) for laboratory strengthening 5."Dr. Punjabrao Deshmukh Vastigruh Nirvah Bhatta scheme" for student accommodation 6. Financial contribution of alumni for institutional development 7.Societal contributions and donations 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. The committee along with the fund seeker takes the follow-up of the agency to which proposal is submitted. If required, presentation is given before the funding agency. 4.0n 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. 5.In case of funded activities, where procurement is involved, standard purchase procedure of the institute is followed. 6. Institute assumes its responsibility for appropriate utilization of released funds either in single installment or multiple. Also, as per the guidelines of funding agency, submits the audited reports along with activity report to the funding agency through seeker. 7. The fund utilization also gets audited in institutional audit. 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.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Student Associations of the institute	223691	Students Welfare
	<u>View File</u>	
6.4.3 – Total corpus fund generated		

		338.8										
.5 – Internal Quality Assurance System												
6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?												
Audit Type	Ext	ernal	Inte	rnal								
	Yes/No	Agency	Yes/No	Authority								
Academic	Yes	Agency appointed by Principal	Yes	IQAC								
Administrative	Yes	Agency appointed by	Yes	IQAC								

Principal

#### 6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Student Performance Grievance redressal System: Class teachers Teacher Guardians (Guardian Faculty Members) associate with Parent in implementing student Performance grievance redressal through online feedback from students. The feedback from the online portal Moodle is evaluated and also the parent's suggestions are involved to improve the student performance. Also student grievances are addressed by faculty members in support with the parents. 2. Parent Meet: Parent meeting is held at least twice in the semester by every department. First meeting is conducted at the start of semester and second meeting is conducted at the middle of semester. During first parent meeting academic activity plan is presented by Head of Department. Parent's suggestions are taken through feedback. Focus is given on student's academic progress individually. Progress of individual student is discussed with parent individually by Guardian faculty members. Grievances of parents are also addressed. 3. Value Education: As part of personality development and social wellness, different initiatives are conducted by college. Parent and teachers are also associate in Value Educational activities. Social and Ethical value education related Guest lectures are conducted by college. Spiritual person or Priests are invited to deliver the life values and ethical practices to be followed in the life. This has helped student awareness for wellness about society and the parents.

#### 6.5.3 – Development programmes for support staff (at least three)

1. Advanced Microsoft Excel 2. PCB Making Workshop 3. Industrial Safety Week

#### 6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Expert lectures for difficult subjects: In order to support student learning and improve academic practices guest lectures for difficult subjects are conducted. Subject experts for difficult subjects of SE TE from the other educational institutes are invited by institute. Guest lectures from the expert faculty members are conducted to support and enhance students learning on difficult topic. In some cases the expert faculty member conduct hands on session explaining 2. Skill enhancement training to students: Placement of student is major concern. Along with academic activities placement oriented training is provided to students to enhance their aptitude skills and problem solving ability. Training placement Cell of college proactively conducts different activities under the guidance of expert consultants. The activity thus helped student in gaining campus placement. 3. Product development through project: Final year student's project plays key role in their career. When selecting the project for final year emphasis is given to prepare a product. Students are encouraged to develop the product through final year project. This initiative is helpful to build entrepreneurship skills of student. Product idea

#### is either given by some enterprise or student themselves put their ideas. This activity has percolated research and development culture in the institute.

a) Subm	ission of Data for AIS	SHE portal		Yes			
	b)Participation in NIR	۲F	No				
	c)ISO certification			Yes			
d)NE	A or any other qualit	y audit		No			
6 – Number o	f Quality Initiatives ur	dertaken during the	e year				
Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants		
2019	ICRIET19	15/02/2019	15/02/2019	16/12/2019	162		
2018	Multi- Criteria Decision Making Methods and Optimization Techniques (MDMMOT- 2018)(Two days National Workshop)	28/12/2018	28/12/2018	29/12/2018	60		
2019	Two days state level workshop on recent challenges on electric and hybrid vehicles.	03/01/2019	03/01/2019	04/01/2019	30		
2018	FDP on Java Programming	10/12/2018	10/12/2018	15/12/2018	21		
2019	FDP on Cyber Sucrity	06/05/2019	06/05/2019	11/05/2019	53		
2018	Experiment Explore and Enhance	03/12/2018	03/12/2018	07/12/2018	15		
2019	Electrical Safety Week	07/03/2019	07/03/2019	07/03/2019	35		
2018	Advanced Microsoft Excel	24/08/2018	24/08/2018	24/08/2018	18		
2018	PCB Making Workshop	21/09/2018	21/09/2018	01/10/2018	40		
2018	Expert lecture on	08/09/2018	08/09/2018	08/09/2018	36		

ar	filing a copyright pplication R in India							
CRITERION VII – IN	STITUTIONA			<u>File</u>	СТІС	:ES		
7.1 – Institutional Val								
7.1.1 – Gender Equity ( year)		-			orga	anized by	the institution	on during the
Title of the programme	Period fro	m	Perio	d To		Numb	er of Partici	pants
						Female		Male
Program for womens safety	13/10/2	018	13/1	0/2018		45		Nill
Rangoli Competition	07/02/2	019	07/0	2/2019		30		Nill
Womens Day celebration	08/03/2	019	08/0	3/2019		35		Nill
7.1.2 – Environmental (	Consciousness	and Sus	tainability/A	Alternate Energ	gy init	tiatives su	ich as:	
Percentag	e of power requ	iirement	of the Univ	versity met by t	he re	enewable	energy sou	rces
			18.	34				
7.1.3 – Differently able	d (Divyangjan) f	riendline	SS					
Item facilit	ies		Yes	/No		Nu	Imber of bei	neficiaries
Provision f	or lift		Y	es			1	
Ramp/Ra	ils	Y		es			1	
Physical fa	cilities		Y	es			1	
	Braille oftware/facilities		No				Nil	11
Rest Ro	Rest Rooms			Yes			1	
Scribes for e	xamination		Y	es			1	
Special developmen differently student	t for abled		1	No			Ni]	1
Any other facilit			Y	es			1	
7.1.4 – Inclusion and S	ituatedness							
Year Number initiative addre locatio advanta and dise ntage	es to initiative ss taken t nal engage ages and adva contribut	es o with e to	Date	Duration		ame of tiative	lssues addressed	Number of participating students and staff
2019 Ni	11 1		04/01/2	1	:	Rally		40

			019			Awareness of health	
2019	Nill	1	06/01/2 019	1	MS office training and compe tition	Awareness of Techno logy	120
2019	Nill	1	09/01/2 019	1	Guest lecture on Govern ment Scehme	Social Awareness	75
2019	Nill	1	10/01/2 019	1	Guest Lecture on Entrep reneurshi P	Awareness of Entrep reneurshi P	50
2019	Nill	1	14/01/2 019	1	Tree Pl antation	Awareness of envirn ment	38
2018	1	Nil	1 18/06/2 018	365	Industr ial visits	locatio nal advantage	250
			View	<u>v File</u>			
′.1.5 – Human	Values and Pr	rofessiona	I Ethics Code of co	onduct (handb	ooks) for vario	us stakeholders	6
	Title		Date of p	ublication	Foll	ow up(max 100	) words)
BSC	OER Handboo	эk	18/0	6/2018	Qual sta prod Inform	Institution ity Assurant andard oper cedure manu mation of S	nces and rating nal for Staff and
					d p: aca Adı	ents which lefines var rocedures a demics, Fin ministratic all working institute	ious Nbout nance, on and g of the
′.1.6 – Activitie	s conducted fo	or promoti	on of universal Val	ues and Ethics	d p: aca Adı Overa	lefines var rocedures a demics, Fin ministratic all working	ious Nbout nance, on and g of the
7.1.6 – Activitie Acti			on of universal Val ration From		d p: aca Adı Overa	lefines var rocedures a demics, Fin ministratic all working	ious ubout nance, on and g of the e.
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<u>View File</u>			
7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)			
1) Bio gas Plant 2) Tree plantation 3) E waste management 4) Water recycling plant 5) Rain water Harvesting			
2 – Best Practices			
7.2.1 – Describe at least two institutional best practices			
aim of multilevel students which faci and ethical values. and provide supp conducive environ relevant guidance • and personality d teachers and peer social awareness • 1 with the parent The skillful technocra students with adequa nation. India will a their interaction monitoring in order the students in all ethics, behavioral between teachers introduced a "Mul concerned authoritie engineers. As the co safe, supported, an Multilevel Monito engagement Increa academic and behavio making students fe high academic an students. As and w levels as GFM, class GFM provide college imbibe professional responsible citize developing such Entrepreneurship de early stage, where viable enterprise teachers must in Connected teachers each student's succe high and clear o 'Guardian Faculty monitors the attor records of student	el monitoring is to o litates to improve to This is subdivided port for improving ac- ment for their multi- o To mentor the stude levelopment • To impro- rs • To enlighten the To provide emotional context Future of the state skills to impart arise followed by the with industries. The to improve academic the dimensions. It of and social aspects. s, students and parent tilevel Monitoring S- es in the institute for ollege excels in the ad capable of solving oring Scheme is cate asing student's engaged oral standards, imple el that learning is ad behavioral standar then required, academic the thics and social va- es teacher, GFM coord a tutoring and other ethics and social va- se to interpersonal con- terease interpersonal con- an identify student as outside the Class communicating regular	itoring of Students C create conducive envi their attitude toward into following object cademic performance • idimensional developm ents for their behavi rove interpersonal co students on profess support to individua he nation depends on higher education show their efforts toward e support from academ e formance and over enlightens the studer It also establishes nts. The practice The Scheme" by the involve for overall developme triad of engagement g academic and profess gorized into three pa gement in learning me ementing flexible tea relevant. Helping st rd requires learning nic counseling is pro- dinator, HOD, Princip learning supports. F alues amongst the struc- conto enhance skilled h students in establiss to their idea in to hi nnectedness: For bet connectedness in the ts' needs and potent s a caring, structur e same, one teacher batch of students. The rformance and maintan way. Free time of GFM to share their proble	ronment for the is academic, social tives: • To monitor To nurture the ent by providing oral, professional onnectedness with sional ethics and als in consultation well-qualified and the facilitate the is the growth of the mic institution and emented multilevel rall personality of nts on professional healthy relations e institute has rement of all the ent of the competent , the students feel sional challenges. arts: • Academic eans setting high aching methods, and support for all ovided at multiple oal and management. Efforts are made to udents to make them employability and oased education. Shing startup at an eghly scalable and ter connect with, heir classrooms. ial, that helps in red environment with is nominated as he GFM regularly ins all relevant I is available to ems. GFM develops

and release some burden off the parents. • Physical and emotional safety: Promote positive college environment through zone of physical, emotional, and academic safety that involves implementing strategies that encourage students

to feel valued and competent and to act with pride and respect for college policies and property. Such environment creates good interpersonal connections of students with their teachers and peers. GFM acts as a mentor to students in emotional and academic support with motivation. The GFM class coordinator helps the students in resolving problems related to campus life and domestic issues. A professional counselor is available on campus for psychological and personal issues like depression, anxiety and loneliness. Identified cases are forwarded to the professional counselor. Tutor is available for providing self-awareness to develop strengths and control weaknesses, develop personal and professional goals. Evidence of success • University rankers and improved academic results • Increased number of participants in technical activities • Increased number of participants in co-curricular, extracurricular and social activities • Students

Placement in Multinational Companies • Increased number of Entrepreneur Problems Encountered and Resources Required ? Considering the special needs of psychological counseling of the students, professional counselor was required and appointed. ? Newly appointed faculty members need orientation program for effective implementation of the scheme. Notes: Considering the success of the scheme, it is evident that, teachers can play a vital role in the overall development of the students. Refinement of the existing system may lead to better performance with respect to learning. 1. Title of the practice In-house Development of Digital Teaching-Learning Resources 2. 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 selflearning 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. 3. The context The quality of engineering education largely depends on the nature of learning rather than good credits. Sound practical knowledge is essential to become successful engineer, which is missing at present and require to bridge the gap between expected knowledge and the credits. ICT enabled teaching learning methods are instrumental in developing self and independent learning attitude amongst the students. In line with OBE, to enhance the learning ability use of ICT tools like, LMS MOODLE, Self-learning Laboratories, VC and Online Video Recordings of theory and laboratory sessions.

4. The practice Learning Management System - MOODLE, which is free and opensource software used to prepare lecture notes, laboratory manuals,

presentations, university question papers with solutions, e-books, tutorials, videos, quiz, etc. by respective subject coordinator. Assignments, mini projects, add value in improving practical and intellectual skills of students. MOODLE is available as a mobile app, which is highly beneficial to students for 24x7 accesses. Communication through WhatsApp, Google groups, text messages by the faculty for information dissemination. Video lectures are integrated as

part of traditional courses, serves as a cornerstone of many blended courses, which is main information delivery mechanism in MOOCs. Students can watch at their own place, pause, repeat small sections of the entire videos. Watching something being done before their eyes over and over again can be beneficial for learning comprehension. For naturally visual learners, a video can help them move from knowing to understanding, and increase their confidence that they are carrying out instructions correctly of faculties. So, institute recorded different videos of faculties while teaching and giving demonstration

of practical sessions and it is uploaded on You-tube. Virtual classrooms are the need of the present education system for effectively and efficiently

disseminating knowledge. VC (video conference) lectures are now becoming a necessary and important tool and teachers are using it more and more for teaching and learning in their classrooms. The technology facilitates learning by enabling distant or remote learners to learn and collaborate with IITs and NITs irrespective of their location. The technology has become a great tool educators can use to improve their students learning. Sometimes students get bored of the teachers teaching methods and class, which is why you need to break up that monotony with a special guest speaker. Also, institutes that make frequent use of video conferencing for teaching and learning give learners the opportunity to learn from a slew of informative experts and specialists, while eliminating the hassle of inviting a guest speaker to the classroom. Self learning is also important since any learning is effective only when such learning happens from within and not forced due to external circumstances. In other words, self-learning is motivated by a desire from within which makes it useful for learners to actualize the drive and the necessary motivation from within so that such learning is enriching. Apart from this, the luxury of learning at one's own pace and at a time of choosing means that students can pick up from where they left off in addition to learning from any device or location that makes such learning a leisurely experience. So, institute provides Self learning labs ion each department which contains different materials for learning like URL of NPTEL videos, virtual labs, e-books and relevant learning materials. The provision of smart board is also made available at selected locations in each department of the institute. Institute has seminar hall equipped with video conferencing facility for delivering online lectures. 5. Evidence of success • Learning Management System on Moodle • VC lecture photos • Utilization of self-learning lab • YouTube link • QR Codes for Lab Setups 6. Problems Encountered and Resources Required • Faculty need to be trained • Extra efforts require for development of ICT based learning material.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.tssm.edu.in/storage/PDF/IQAC/2019-20/7.2.1.pdf

#### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Title: Need based Professional Skill Development The institute has established Professional Skill Development Center (PSDC) which identifies the significant industry with requirement of workforce on specific skillset. PSDC then prepares common agreement (MoU) between institute and the industry by involving respective department and Training and Placement department to ensure skill development of graduates as per industry requirement. The institute and industry involve their experts to train the graduating students on specific skillsets required by industry. Industry also can review the development of students during training program. Institute has affiliated with international certifying organizations based on training skills. Students are insisted to appear for certification examination offered by international certification organization on the respective skills. After successful completion of training program and certification, the industry offers internship to the students who will undergo skill based training. Internal faculty members and industry experts review the progress of students during internship. Internship certificates are distributed to students who are successfully completing internship offered by industry. Finally the students are evaluated by industry and offers job opportunities to them. The computer department conducted 'Workshop on Raspberry Pi programming and project building' in association with Dolphin Labs. Also established MoU with Tristha Global Privet limited to train

students on Manual Software Testing and Automation Software Testing, provide internship and employment opportunities in Tristha Global Privet Limited. The institute is affiliated to International Software Testing Qualification Board for global certification in Software Testing. 09 students were trained and completed internship in Software Testing in year 2018-19. 04 students from this batch are successfully availed ISTQB Certified Software Tester Certification. Students are also evaluated by Tristha Global Privet Limited and offered placement as Associate Software Tester with package of 2.3 Lakhs per annum. Department of Mechanical Engineering have conducted national level workshop on "Multi-criteria Decision Making and Optimization Technique". The objective of this workshop was to equip participants with multi-criteria decision making techniques and optimization techniques. Participants got overall idea about recent trends in optimization techniques. Also, mechanical department have organized a one week free Auto-CAD 2013 training program for the students in collaboration with CADD Center Pune. The training was conducted. The objectives of this training program were to introduce the importance of design software in the field of mechanical engineering using 2D drawing of machine elements. Total 40 students have attended the training program. Civil engineering department also offers internship to the students under BAI. BAI is the only all India apex representative body of civil engineering construction companies. BAI was founded in 1941 under the guidance and blessings of Brig. C.V.S. Jackson of Military Engineering Services, Poona, now known as Pune, who suggested that builders working under his command, form a body for finding solutions to various problems. Our department signed MOU with BAI and every year they are offering and giving valuable internship to our students.

#### Provide the weblink of the institution

https://www.tssm.edu.in/storage/PDF/IQAC/2019-20/7.3.1.pdf

## 8. Future Plans of Actions for Next Academic Year

Identifying the need of training and placement of the students it is proposed to increase the Industry Institute Interaction that will bridge the gap between University curriculum and Industry. The bridging will be achieved through increasing number of internship training programs, increasing number of Industry sponsored projects, increasing number of interaction sessions with Industry people (both theory and hand-on). For the same every faculty member will try to build the relations with at least one Industry person. Also, faculty members will be encouraged to go for some advanced training programs in the current trends/software in Industry. Students will be made aware and motivated about the competitive exams and the related Government jobs. The required training agencies/ faculty members will be identified and informed to the students for the same. The technical ability of the students will be increased through the learning material provided by the faculty members through the course file. This will indirectly help the students to cope up with the current trends in Industry and in-turn increase the placements.