



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

1. Name of the Institution	TSSM'S PADMABHOOSHAN VASANTDADA PATIL INSTITUTE OF TECHNOLOGY, BAVDHAN,PUNE
Name of the head of the Institution	Dr. Chetankumar Mathuradas Sedani
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02022948002
Mobile no.	9763702580
Registered Email	principalpvpit@tssm.edu.in
Alternate Email	principal@pvpittssm.edu.in
Address	S.N. 33/22, Opposite Athashree Project, Near. Chandani Chowk, Pirangut Road, Bavdhan , Pune - 411021
City/Town	Pune
State/UT	Maharashtra

Pincode	411021																		
<b>2. Institutional Status</b>																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. Pramodkumar Bagade																		
Phone no/Alternate Phone no.	02022948002																		
Mobile no.	9075279575																		
Registered Email	iqac_pvpit@tssm.edu.in																		
Alternate Email	pramodbagade@gmail.com																		
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)	<a href="https://pvpittssm.edu.in/iqac/AQAR_2018-19">https://pvpittssm.edu.in/iqac/AQAR_2018-19</a>																		
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://pvpittssm.edu.in/iqac/academics_2019-20/academic_calendar">https://pvpittssm.edu.in/iqac/academics_2019-20/academic_calendar</a>																		
<b>5. Accrediation Details</b>																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.01</td> <td>2018</td> <td>02-Nov-2018</td> <td>01-Nov-2023</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.01	2018	02-Nov-2018	01-Nov-2023
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.01	2018	02-Nov-2018	01-Nov-2023														
<b>6. Date of Establishment of IQAC</b>	07-Feb-2017																		
<b>7. Internal Quality Assurance System</b>																			
<table border="1"> <thead> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by</th> <th>Date &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td colspan="3"> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries								
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Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries																	

IQAC		
ICT based teaching and other digital platform	05-Aug-2019 365	1812
Improvement in MoUs and collaborations with industries	12-Sep-2019 180	284
Special efforts on improvement of communication skills of students	15-Oct-2019 180	380
Green and Clean campus	01-Aug-2019 365	1812
Implemented Internal Academic audit	13-Nov-2019 120	78
Improvement in R & D activities	26-Dec-2019 150	25
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical Engineering Department	EEQ	DST-SERB	2019 1095	2524295
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	

1. ICT based teaching and other digital platform 2. Special efforts on improvement of communication skills of students 3. Green and Clean campus 4. Improvement in extension activities related to COVID pandemic

[View File](#)

**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
Active participation in extension activities	Conducted various programs on COVID pandemic and received an award from Pune Municipal Corporation for the same.
Motivation for R & D activities	Received a grant fo Rs. 2524295 from DST- SERB
Improvement in placement activities	This year we have reached sixty two percent placement of students as compared to forty two percent of last academic year
Usage of ICT based tools and other platforms for effective learning	All the courses were made available online via MOODLE
<a href="#">View File</a>	

**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Board of Governors, PVPIT Pune	30-Jan-2020

**15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission

05-Feb-2020

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

Yes, the Institution has a Management Information System (MIS) which has been developed completely in house. The

students, teachers and parents were provided with login and password to access the necessary information. The MIS is widely implemented in the administration of the institution facilitating easy retrieval of the information regarding planning and development, student admission and support, examination, finance and accounting of the institution. The academic processes like the student attendance, internal marks, and conduct of internal examination and publication of the results are computerized. An extensively computerized finance section supports activities like admission, fees collection and accounting. Each department records the details of the faculty like the performance appraisal, feedback, faculty attendance, etc. with the support of the MIS. Following modules are available in our MIS. List of Modules: 1. Course Information System 2. Placement Information System 3. Student Information System 4. Faculty Information System

## 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

Institute is affiliated to Savitribai Phule Pune University, Pune (SPPU) and follows the curriculum designed by the Board of Studies (BoS) of SPPU for various engineering programs. To achieve educational goals of an institute, institute abides to execute curriculum framework using required potential of resources. Institute has a structured academic plan, for effective implementation and execution of curriculum. Before commencement of every academic year, institute prepares its proposed academic calendar, which is uploaded in the college website. The proposed academic calendar is prepared by considering the notices and circulars received from the affiliating university. Students are informed about the academic calendar of the college notifying the probable teaching days, dates of internal examinations, curricular, and institution level co-curricular activities, workshops, guest/expert lectures and industrial visits. Orientation programs are organized every year for newly admitted students to make them aware of the mechanism for curriculum delivery and implementation. Based on the departmental routine, Head of each department (HoD) conduct meetings to allocate the theory and laboratory courses to faculty members according to area of specialization, skills and experience. The department time table for each semester is prepared to indicate specific class and laboratory hours, which are uploaded on MOODLE. Faculty prepares extensive lecture notes using university prescribed books and other references. Laboratory manuals are prepared, so that students can understand and co-relate theory with practical application which is monitored by HoDs and module

coordinators. Course files are maintained by respective faculty members, which contain all the information necessary for the implementation of the curriculum.

Academic Monitoring Committee (AMC) checks the progress of theory and laboratory courses conducted according to teaching and laboratory plans.

Students' attendance and academic progress for individual course is continuously monitored through teaching plan. Periodic tests are conducted for theory subjects and mock examinations for practical / oral. The remedial classes are conducted for the students having poor performance in these evaluations. Along with the traditional chalk and talk method, faculty is encouraged to impart the curriculum through teaching methods such as Problem

Based Learning, Project based Learning, Inquiry training and concept attainment. Views of experts from industry, academia and alumni on curriculum are taken for improving teaching learning process and academics. The institute has ICT based feedback management system, which enables stakeholder-institute interaction for enrichment of teaching-learning process and overall development of student. AMC conducts academic audit every semester, ensuring achievement of academic outcome. Internal Quality Assurance Cell (IQAC) through its audit takes care for fulfilling quality requirement and takes necessary action for up-gradation. During the lock-down period, teachers have continued the mentoring process through different online modes such as zoom, telegram, WebEx, Google Meet, Google Classroom, messages, and phone calls etc. During the sudden outbreak of the COVID-19 pandemic situation, institute was closed from March 2020 under the directives of the State Government. Teachers continued teaching and completed syllabus through different online platforms and also by providing class notes and videos.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Computer Engineering	PATHON Programming	04/07/2020	10	Focus on employability	Nil
Electronics and Engineering Telecommunication	Cyber security	04/07/2020	10	Focus on employability	Nil
Mechanical Engineering	Aero modeling	08/09/2019	11	Focus on employability	Nil
Civil Engineering	Legal Aspects And Site Exposure in Civil Engineering	11/09/2019	10	Focus on employability	Nil

#### 1.2 – Academic Flexibility

##### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Engineering Mathematics-II	16/07/2019
BE	Audit Course: Environmental Studies-I	16/07/2019

BE	Engineering Mechanics	16/07/2019
BE	Programming and Problem Solving	16/07/2019
BE	Basic Electronics Engineering	16/07/2019
BE	Basic Electrical Engineering	16/07/2019
BE	Systems in Mechanical Engineering	16/07/2019
BE	Engineering Chemistry	16/07/2019
BE	Engineering Physics	16/07/2019
BE	Engineering Mathematics-I	16/07/2019
<a href="#">View File</a>		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	16/07/2019
BE	Computer Engineering	16/07/2019
BE	Mechanical Engineering	16/07/2019
BE	Electronics and Telecommunication Engineering	16/07/2019
ME	Construction Management	16/07/2019
ME	Computer Engineering	16/07/2019
ME	Heat Power & Design Engineering	16/07/2019
ME	Design Engineering	16/07/2019
ME	VLSI & Embedded system	16/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	170	0

### 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Robotic Process Automation(RPA) Certification Course(Mechanical Engineering)	16/12/2019	80
Soft Skills Training	20/01/2020	30
Execution of embedded system practical as per	24/02/2019	30

industry perspective

[View File](#)

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	36
BE	Mechanical Engineering	133
BE	Computer Engineering	55
BE	Electronics and Telecommunication Engineering	6
<a href="#">View File</a>		

## 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

The institution collects the feedback on curriculum aspects and courses from different stakeholders such as the students, teachers, parents, alumni and employers. Institution established Academic Council in order to ensure and analyze the academic excellence at student and faculty levels. Periodic analysis is made by Academic Council from the student performance, faculty performance in every semester on utilization of infrastructure and requirements for quality enrichment. Institute thoroughly reviews the curriculum for every academic year, which is properly maintained by IQAC. Under supervision of IQAC, various departments and committees like career guidance, anti-ragging, sexual harassment and NSS etc. are addressed to reinforce the curriculum. Institute collects the feedback from stockholders like students, parents and teachers on curriculum through website and MOODLE. The institute also conducts annual Alumni Meet, in which suggestions and feedback is received from alma-mater. Feedback from industrial management, R D establishments and professionals is also obtained. The provided feedback data is presented in the Academic Council Meeting of IQAC for necessary implementation in curriculum. The received feedback is analyzed by IQAC and suggestions are provided to the Head of the Institution for action. Teachers also provide formal as well as informal feedback to the head of the institution on academic, administrative and other affairs related to the institute. Members of anti-ragging committee and Internal Complaints Committee also receive feedback from students through class campaigns. Grievances (if any) and necessary suggestions can be registered to the Grievance redressal cell of the institute through the "Samadhan" box kept at various locations in the premises. Departments receive feedback from parents through parent-teacher meetings and discuss different issues related to the overall development of their wards. For this academic year, formal structured online feedback from parents are prepared and has been implemented from the



current academic session.

## 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
ME	ME-VLSI & Embedded Sys.(612234110)	24	3	3
ME	Computer Engg .(612224510)	24	3	3
ME	Design Engg.(612260110)	24	8	8
ME	Heat-Power Engg(612259620)	24	4	4
ME	Construction Management(612221010)	24	11	11
BE	Mechanical Engineering (shift-II)(612261220)	120	2	2
BE	Mechanical Engineering (shift-I)(612261210)	120	46	29
BE	Electronics and Telecommunication(612237210)	60	62	42
BE	Computer Engineering(612224510)	60	70	57
BE	Civil Engineering(612219110)	120	41	20

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### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1587	64	136	16	12

### 2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
152	152	11	27	6	8
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

For a group of 20 students a teacher is allotted as a Guardian Faculty Member (GFM). GFM conducts a weekly meeting, counseling of students and provide guidance for slow learners, and also addresses the nonacademic issues. GFM prepares batch-wise student list, collect and prepares students profile through personal meeting monthly. The meeting aims to understand and resolve their academic and social problems. The students' performance are identified and informed to their parents. GFM guides and collects student participation certificates of achievements, and maintains leave records and provides necessary feedback as per requirements. Institute provides academic, career, financial and psycho-social counseling to the students as per demand of GFM by professional counselors. In nutshell, GFM acts as mediator and mentor for both parents and institute. Following methodology is adopted for overall students mentoring at institute level: The GFM scheme closely monitors every student's academic, co-curricular and extracurricular performance and keeps the record in Student Performance Evaluation Report (GFM Booklet). The GFM scheme also ensures that parents are regularly updated about their wards progress through social media platform. The GFM provides the assistance to apply for the scholarships to needy students. The GFM maintains the subject wise result of each student and if there is a need of remedial coaching, it is recommended to concern department. The GFM also keeps the record of student's interest in placement, entrepreneurship, participation in competitive examinations or higher studies and provide the guidance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1651	152	1:11

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
148	142	6	6	10

### 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
2019	Dr. C M Sedani	Principal	Associate Editor: International Journal for Engineering Applications and Technology (IJFEAT) ISSN: 2321-8134 99)
2019	Dr. C M Sedani	Principal	Editor: International Journal of Advent Research in Computer and Electronics (IJARCE) E-ISSN:

			2348-5523
2019	Dr. C M Sedani	Principal	Editor:International Journal of Research in Advent Technology (IJRAT) E-ISSN: 2321-9637
2019	Dr. C M Sedani	Principal	Board editorial:: International Journal of Innovations in Engineering Science (IJIES) ISSN 2456:3463
2019	Dr. C M Sedani	Principal	Reviewer for Emerald ( IJQRM)
2019	Dr. C M Sedani	Principal	Reviewer for Indian Institution of Industrial Engineering Navi Mumbai (India)
2019	Dr. C M Sedani	Principal	Reviewer for International Journal of Management Research
2019	Dr. C M Sedani	Principal	Reviewer for Inder Science Publications (IJBEX,IJPQM,IJEST)
2019	Dr. S.M. Kulkarni	Assistant Professor	Reviewer for journal : IET The Journal of Engineering: International Journal
2019	Dr. S.M. Kulkarni	Assistant Professor	National level Conference IEEE TECHNICOKNOCKDOWN
<a href="#">View File</a>			

## 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	612224510	BE 2015 SEM-I	12/12/2019	28/01/2020
BE	612224510	TE 2015 SEM-I	12/12/2019	24/01/2020
BE	612224510	SE 2015 SEM-I	10/12/2019	20/02/2020
BE	612219110	SE 2015 SEM-I	10/12/2019	20/02/2020
BE	612219110	TE 2015 SEM-I	12/12/2019	24/01/2020

BE	612219110	BE 2015 SEM-I	12/12/2019	28/01/2020
BE	612237210	SE 2015 SEM-I	10/12/2019	20/02/2020
BE	612237210	TE 2015 SEM-I	12/12/2019	24/01/2020
BE	612237210	BE 2015 SEM-I	12/12/2019	28/01/2020
BE	612261210	SE 2015 SEM-I	10/12/2019	20/02/2020
<a href="#">View File</a>				

#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

In the Evaluation Process reform various academic formats are implemented in the institute for improving the student's academics. The institute implemented the Learning Management System (MOODLE) provides a platform for the students to discuss and interact effectively with teachers. The New teaching and lab plan includes the teaching models, teaching activities, student activities, learning material and assessment tool indicating student centric methods. For the faculty, teaching learning material preparation, course file content as per standard guidelines is prepared by the IQAC. In the same way, for the lab preparation, lab audit check-sheets are used by the Lab In-charge. Based on that, Dean - academic with all Academic Monitoring Committee (AMC) members conducts academic audit. The Institute monitors the academic evaluation/assessment, the implementation of all activities mentioned in the academic and departmental calendar through Internal Academic Audit (IAA) conducted by IQAC. The institute takes feedback in each semester from students for every faculty. This feedback is shared to the concerned faculty for analysis and corrective action if any. Faculties are deputed to various FDPs, conferences, workshop and symposiums. Dean academics informs faculty about the reforms suggested by IQAC in the review meeting. Stake holders are informed about evaluation process during various meetings as per institutional calendar. Students are made aware of the evaluation process during induction program, periodical addressing by HOD and concerned faculty members. Reforms adopted by the institution aims at testing the skills and knowledge acquired by students during the completion of course. Continuous evaluation is carried out by direct tools like MCQs, unit test, assignments, practical's, online examination, Insem examination and indirect tools like quiz, debate, survey, competitions and discussions. The reforms adopted by the institution are as follows: Online Practice Examination. Model answers with explanation are also provided for self-assessment. Term End Examination: The institution conducts term end theory examinations at the end of the semester. This helps students to practice writing of theory paper as per the university examination pattern. Mock Oral and Practical Examination: These examinations are conducted to develop confidence among students to face university examinations which are evaluated by an external examiner. Retest: Students absent for the unit test and students with poor performance are advised to appear for a retest to improve their performance. Quiz: Technical quizzes are conducted to develop the interest about the subjects. Assignments: Assignments are given to students and their evaluation is regularly monitored by the subject teachers. Term work: Term work evaluation is carried out based on term work assessment sheet. It includes student's attendance, unit test marks and completion of lab journals. Projects work is carried out and evaluated as per SPPU norms.

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

The affiliating university (SPPU) provides the guidelines about academic schedule of the semester which includes the date of commencement and end of the semester, schedule of examinations, etc. At the start of each semester Academic Monitoring Committee (AMC) under Dean Academics prepare an academic calendar

for the institution. After approval of the academic calendar by the IQAC, the respective department prepares an academic calendar for the department. It includes a schedule for unit tests, term end exam, extracurricular and co-curricular activities like technical events, guest lectures, and parents meet etc. Academic calendar of each department is displayed on the institutional website and also circulated among the faculties and students. In concurrence with the academic calendar, mock online tests and unit tests are conducted for the first to final year students. The subject teacher prepares a monthly attendance report and the same is conveyed to students and stakeholder for necessary information and action. The record of a continuous assessment in proper record is maintained by the subject teacher and performance of students is evaluated at the end of a semester. A periodic review of the progress of the syllabus is taken and extra hours (if required) are added in time table to meet the academic deadlines.

## 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://pvpittssm.edu.in/iqac/2019-20/po\\_pso\\_co](https://pvpittssm.edu.in/iqac/2019-20/po_pso_co)

### 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
612260110	ME	Design Engg	9	9	100
612259620	ME	Heat-Power Engg	2	2	100
612221010	ME	Construction Management	26	26	100
612261220	BE	Mechanical Engineering (shift-II)	95	95	100
612261280	BE	DSE Mechanical Engineering (shift-I)	61	61	100
612261210	BE	Mechanical Engineering (shift-I)	138	136	98.55
612237210	BE	Electronics and Telecommunication	35	35	100
612224580	BE	DSE Computer Engineering	62	60	96.77
612224510	BE	Computer Engineering	57	57	100
612219110	BE	Civil	124	124	100

**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://pvpittssm.edu.in/igac/2019-20/ssss>

**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
Projects sponsored by the University	365	Masterglob Pvt Ltd.	0	0
Projects sponsored by the University	365	Raj fertilizes and chemicals sagali	0	0
Projects sponsored by the University	365	Innovatus Technologies	0	0
Projects sponsored by the University	365	CORECO Technology	0	0
Projects sponsored by the University	15	By Corporate office JSPM	0	0
Major Projects	1095	DST-SERB	25.24	11.97
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**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
Open roads software by Bentley Institute	Civil Engineering	14/06/2019
Webinar on: Intellectual Property Rights	Computer Engineering	25/05/2020
Expert Talk: Intellectual Property Rights-Patents	Computer Engineering	02/10/2020
National work shop on Machine learning for data analytics	ENTC Engineering	07/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
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NIL	Nill	Nill	Nill	Nill
No file uploaded.				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	Nill	Nill	Nill	Nill	Nill
No file uploaded.					

### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electronics and Telecommunication Engineering	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	11	0
International	Computer Engineering	1	5
International	Electronics and Telecommunication Engineering	1	0
International	Mechanical Engineering	3	11.77
International	First Year Engineering	3	Nill
<a href="#">View File</a>			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
First Year Engineering	1
Mechanical Engineering	1
Electronics and Telecommunication Engineering	3
Civil Engineering	15
<a href="#">View File</a>	

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in	Number of citations excluding self
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					the publication	citation
Supervised Modelling of ADS designed Double Pole Double Throw Switch	Nayana Kiran Shinde	National Conference on advances in science, engineering and management	2019	0	PVPIT	0
A review on routing protocol and deployment challenges concerning underwater wireless sensor network	S A Gandhi, Dr S S Sonawane	IFERP	2019	1	PVPIT	0
Performance assessment of video stabilization algorithms based on L1-L2 optimization	S.M. Kulkarni, D.S. Bormane, Chhankyakumar Jha	IEEE Explore conference proceeding	2020	0	PVPIT	0
<a href="#">View File</a>						

### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Comparative study of lead zirconate titanate ceramic and carbon fiber reinforced polymer composite surfaces machined by abrasive water jet	Dr. Kamlesh Sorate	Elsevier's- Materials Today	2020	0	63	PVPIT



Analysis of torsional stiffness of an automobile drive shaft by composite material with FEA	Dr. C. M. Sedani	International Journal of Science Engineering Development Research	2019	0	12	PVPIT
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	33	19	93
<a href="#">View File</a>				

### 3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Gandhi jayanti Celebration, Swatch Bharat Abhiyan	NSS and Lions Club	1	28
River Cleaning Abhiyan	NSS and SPPU	1	10
Blood Donation Camp	NSS and Red Plus Blood Bank	24	200
Environment Day Celebration	NSS, SPPU	3	25
Worlds Yoga Day	NSS, SPPU	17	60
Tree Plantation	NSS, SPPU	10	50
Fit India Moment	NSS, SPPU	5	80
E Waste Awareness	NSS and PMC	10	200
Mission Kolhapur Sangali Flood Relief Donation	NSS, SPPU	5	40
Formation of Leo Club of Poona	NSS and Lions Club	5	50
<a href="#">View File</a>			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Street Play	TROPHY	AISSMS ,COE	1

	CERTIFICATE		
Leo Advisor	CERTIFICATE	Lions International Award	1
Leo President	CERTIFICATE	Lions International Award	1
<a href="#">View File</a>			

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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS	SPPU	Gandhi jayanti Celebration, Swatch Bharat Abhiyan	1	28
NSS	SPPU	River Cleaning Abhiyan	1	10
NSS	Red Plus Blood Bank	Blood Donation Camp	24	200
NSS	Lions club	Formation of Leo Club of Poona	5	50
NSS	SPPU	Mission Kolhapur Sangali Flood Relief Donation	5	40
NSS	PMC	E Waste Awareness	10	200
NSS	SPPU	Fit India Moment	5	80
NSS	SPPU	Tree Plantation	10	50
NSS	SPPU	Worlds Yoga Day	40	60
NSS	SPPU	Environment Day Celebration	3	25
<a href="#">View File</a>				

### 3.5 – Collaborations

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
Expert Lecture on Thermodynamics	SE Mechanical Students	Institute	1
Expert Lecture on Strength of Material	SE Mechanical Students	Institute	1
Expert Lecture on Mathematics 3	SE Mechanical Students	Institute	1

Guest Lecture on Turbo Machines	TE Mechanical Students	Institute	1
Guest Lecture on Dynamics of Machinery	BE Mechanical Students	Institute	1
final year project: Internet of Things Based Water Management System	Akshay Jedage, Nikhil Walanj and Suraj Shet	Institute	365
final year project: Microcontroller based position Controller	Khole Praful Nilesh, Kulkarni Mayuri Milind and Sunar Nabin	Institute	365

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Work	Location based parental control child tracking system using Android	Masterglob Pvt Ltd.	01/06/2019	01/05/2020	4
Project Work	Rainfall Based, Crop Disease Identification	Raj fertilizes and chemicals sagali	01/06/2019	01/05/2020	4
Project Work	Maintaining trustworthy Security for Electronic voting data using Block chain Technology	Innovatus Technologies	01/06/2019	01/05/2020	4
Project Work	Resume Evaluation System based on AI (Text Mining)	CORECO Technology	01/06/2019	01/05/2020	4
Internship	Data Analyst	Verificient	01/04/2020	01/05/2020	39

	Internship	Solutions Pvt. Ltd.			
Project Work	Project:Microcontroller based position Controller	National Center of Radio Physics Giant Meter wave Radio Telescope(GMRT)	01/06/2019	01/05/2020	3
Project Work	Internet of Things Based Water Management System	Argute Technologies Pvt. Ltd., Sr. No. 46/7, Chaitanya Krupa Residency, Narhe, Pune 411041.	01/06/2019	01/05/2020	3
On the job training	Placement Preparation Test for final year students	Firstnaukri.com , Hitesh Dargan Noida - 201301 National Campus Alliances	12/03/2020	31/12/2020	36
On the job training	Placement opportunities for Electronics Engineers in Industries	Samsung	14/08/2019	14/08/2019	38
On the job training	Barklays Soft skill training	Barklays Company	15/07/2019	17/07/2019	41
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Argute Technologies Pvt. Ltd., Sr. No. 46/7, Chaitanya Krupa Residency, Narhe, Pune 411041.	10/10/2019	a. To promote and enhance academic interest among two. b. To provide advice for implementation of quality of education at PVPIT. c. To promote research/continuing education	4

		activities. d. To impart training to the students, staff and faculty by indus	
Yashaswi Electronics, Sr. No: 152, Lane No: A-30, Laigude Industrial Estate, Dhayri, Pune, 411041.	10/10/2019	a. To promote and enhance academic interest among two. b. To provide advice for implementation of quality of education at PVPIT. c. To promote research/continuing education activities. d. To impart training to the students, staff and faculty by indus	0
Rubicon Skill development Pvt ltd	02/06/2019	Students training	130
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#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1.01	0.96

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar halls with ICT facilities	Existing
Seminar Halls	Existing
Class rooms	Existing
Campus Area	Existing
Laboratories	Existing
Classrooms with Wi-Fi OR LAN	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
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##### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}



Existing	617	467	617	15	76	14	45	104	0
Added	0	0	0	0	0	0	0	0	0
Total	617	467	617	15	76	14	45	104	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

104 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media centre, Recording facility, Lecture Capturing System (LCS)	<a href="https://pvpittssm.edu.in/campus_life/common_facilities">https://pvpittssm.edu.in/campus_life/common_facilities</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1.51	1.43	1	0.95

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The institute adopts standard established systems and procedures for maintaining the physical, academic and support facilities that are mentioned in the maintenance policy document of the institute. Maintenance of various facilities is done as per requirement on regular basis. There are institute level committees which monitor the various aspects of the utilization and maintenance of the facilities. In daily maintenance, complete cleaning of classrooms, libraries, seminar hall, VC room and laboratory is conducted. If there is requirement for repairs of equipment, it is carried out to avoid breakdown maintenance. The campus has power backup facilities and generator which are monitored on regular basis. Before commencement of semester the maintenance committee verifies that all the equipments of laboratories are properly functioning or not, in case if there is any deviation then corrective action after calibration is decided. The schedule maintenance is carried through special staff appointed by institute. The infrastructures maintenance includes electricity related issues, door and window repairs, ceiling and roof cleaning, painting work and other masonry works etc. The computers and ICT tools are monitored, and software updates and internet related problems are resolved on regular basis by respective technical assistants. The institute has Library Committee for effective accessibility and utilization of learning resources for students and faculty. It also includes physical verification of books. As mentioned above, the institute has an effective maintenance policy which is implemented throughout the year and proper record keeping is done.

[https://pvpittssm.edu.in/naac/institute\\_policies](https://pvpittssm.edu.in/naac/institute_policies)

#### 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	Padmabhooshan Vasantdada Patil Scholarship	5	60000
Financial Support from Other Sources			
a) National	Directorate of Technical Education, Social justice and special assistance department., Tribal Development department, Minority Development, VJNT,OBC and SBC welfare Department	1287	78498709
b)International	NIL	0	0
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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
Gandhi Jayanti Celebration, Swatch Bharat Abhiyan	02/10/2019	28	NSS and Lions Club28
Environment Day Celebration	06/05/2019	25	NSS,SPPU
Worlds Yoga Day	21/06/2019	60	NSS,SPPU
Tree Plantation	30/09/2019	50	NSS,SPPU
Fit India Moment	29/08/2019	80	NSS,SPPU
E Waste Awareness	29/08/2019	200	NSS and PMC
Mission Kolhapur Sangali Flood Relief Donation	08/12/2019	40	NSS,SPPU
Formation of Leo Club of Poona	18/09/2019	50	NSS and Lions Club
Blood Donation Camp	24/09/2020	200	NSS and Red Plus Blood Bank
River Cleaning Abhiyan	09/05/2019	10	NSS,SPPU
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for	Number of benefited students by	Number of students who have passed in	Number of students placed
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		competitive examination	career counseling activities	the comp. exam	
2019	Career counselling by Mr Shailesh Bobhate, a motivational speaker and career coach.	90	130	1	40
2019	Guest Lecture on Placement Opportunity for Electronics Engineering in Industries	0	37	0	0
2019	Training Program on Barkley's Soft skill Training	0	102	0	0
2020	Zensar ESD Training Program	50	50	5	2
2020	Career counselling Programme by CAD CAM Guru	0	250	0	110
2020	Session on : Preparation of Competitive Examination.	110	110	2	100

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	5

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed

Talentio, BYJUS, HSPM Solutions, Om Electronics, Solictious Business Solution, Close Union, Digitize Brand Hub Pvt. Ltd., Trifern Systems, ZM Technologies, Q-Spider, Repos Energy India Pvt Ltd, RAAM GROUP, Mindbrowser T echnologies, ADA Tech, Global St	380	123	BYJUS, Densa Buildcon pvt.Ltd., Plannerfy, G source, Pincal India Pvt.Ltd, Alada, Kangralkar Associate, Hexagon Design Solutions, Sarathi Engineers, Tata Consultancy Services, Tech Mahindra, Deloitte, Verificient Technologies , Tata Autocomp, Tata Au	388	81
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#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	Engineering	Mechanical Engineering	Hochschule HOF University of Applied Sciences, Germany.	MSc in Operational Excellence.
2020	1	Engineering	Mechanical Engineering	Hochschule HOF University of Applied Sciences, Germany.	MSc in Operational Excellence.
2020	1	Engineering	Mechanical Engineering	Hochschule HOF University of Applied Sciences, Germany	MSc in General Management
2020	1	Engineering	Mechanical Engineering	University of Liverpool	MSC (ENG) Product Design & Manufacturing

2020	1	Engineering	Mechanical Engineering	Clemson Graduate School	MS (Automotive Engineering)
2020	1	Engineering	Mechanical Engineering	University of South Florida	MS (Industrial Engineering)
2020	1	Engineering	Civil Engineering	TSSM's PVP IT,Badhan, Pune	ME (Construction Management)
2020	1	Engineering	Civil Engineering	TSSM's PVP IT,Badhan, Pune	ME (Construction Management)
2020	1	Engineering	Computer Engineering	MIT	MBA
2020	1	Engineering	E&Tc Engineering	Dundalk Institute of Technology, Dublin Road, Dundalk	MSc in Renewable Energy Systems
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
TOFEL	1
Any Other	4
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Solo Dance	Institute	42
Group Dance	Institute	10
Duet Dance	Institute	25
Kbaddi	Institute	90
Volleyball	Institute	50
Tug of War	Institute	40
Chess	Institute	25
Carom	Institute	25
Table Tennis	Institute	25
Athletics	Institute	100
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### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
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2019	Coach -Behar Trophy 2019-20	National	1	Nill	00	Udaysingh Killedar
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Council is an organization conducted by students and supervised by institute. The purpose of the student council is to provide an opportunity to students to develop leadership by organizing and carrying out various activities in the Institute. Also it makes the students to participate in the development of the Institute and develop their career, personality and organizational skills through interactive programs. In addition to planning events that contribute to Institutional spirit and community welfare, the student council is the voice of the student body. They help student to share their ideas, interests and concerns with the wide community. This platform provides opportunity to the student community to express their opinions about the institute and recommend the suggestions as per their expectations. It also establishes relationship between administrative bodies and students. The Students council supports for smooth conduction of various activities in Institutes like Technical fests, Sports activities and annual gathering. They provide feedback to the administration for improving the student amenities and personality grooming by mentoring the junior and needy students. This helps to improve their technical, organizational and managerial skills by conducting seminars, workshops, symposiums etc. The Institute encourages students to enhance innovative and creative skills by organizing various programs. It will also organize different activities for students to improve the cleanliness and greenery in campus which will help to maintain peace and harmony among the students community. The Training and Placement cell also arranges expert lectures from eminent persons in the society for career and personality development of students. Students' council formation in our institute, every year we form student council based on their academic performance, and participation in extra-curricular and co-curricular activities. For selection process we have formed a panel having expert faculty, HoDs, Principal and Director of the institution. The process involves tests and interviews for the final selection of the committee members.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The PVPIT Pune Alumni Association (PPAA) founded in 2012 is continuously fostering to build a strong industry-institutional tie up among the students and the institute. The mission of PPAA is to build and sustain life-long relationships with PVPIT alumni by maintaining personal contact, hosting special events both on and off campus, creating alumni networks within India and world providing services which benefit alumni throughout their lives, and by involving alumni in ways which use their talents and skills to enhance the PVPIT community. The PVPIT Pune Alumni Association (PPAA) works to connect alumni and the present students through variety of activities. Alumni help the students in getting in-plant training opportunities for students in their companies. Alumni who have started their own companies have also helped the students to get non paid and paid internship. The active network and collaboration with alumni helps the institute in overall development by following ways • Registered alumni association • Guest lecturers by experienced alumni are organized for students. • Skill-based training to students to meet

industry needs is conducted. • Every department has one alumnus as a member of Alumni Association. • Industrial visits for students are facilitated by the alumni. • Alumni are in communication with the institute through Social networking sites like Facebook, WhatsApp. • Alumni can access day to day activities of institute through website and can give their valuable suggestions. • Inviting Alumni to conduct mock interviews and group discussions. • Information about placement/ job openings across the country. • Campus recruitment by the Alumni into their organizations. Registration Number: - MAH- 412/2013/Pune Dated: - 12/03/2013. Alumni meet is organized four in a year for maintaining harmony among the alumni and the institute. Also the alumni interactions with the present students were arranged whenever they visit the campus. Valuable suggestions from alumni members are collected for enhancing the professional standards of our institution. Feedback from the employers is collected to understand the performance of alumni in the industries. Alumni Association helps the students to know the job opportunities and for pursuing higher studies in India and Abroad. Alumni suggestions during Alumni meet helps restructuring the curriculum and teaching learning process.

5.4.2 – No. of enrolled Alumni:

3879

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

22500

5.4.4 – Meetings/activities organized by Alumni Association :

4 Per Year

## **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)

Two practices of decentralization and participative management The institute has incorporated the following practices: 1. Expert Lectures Decentralization and operational transparency are the features of our institute, that develops cohesive and harmonious environment in the departments and forms organized mechanism of allocation of the authority and provides working autonomy to all the heads / in-charges of respective departments. The stake holders provide valuable suggestions on curriculum development and overall performance, as per the requirements from Industry. The institute has designed well planned and organized soft skills enhancement program, aptitude skills development program, programming skills workshops and expert lectures apart from their university curriculum. Expert lectures from eminent personalities are arranged for overall development of students. Through these program, students build their confidence and practice the required skills for industries. 2. 360-degree feedback system The institute visualizes decentralization as a basic requirement for creating conducive environment for participation and liability at each level of administration. Our institute in its efforts to provide best quality education to students have highly motivated, dedicated and skilled faculty. However, student feedback of teachers is equally important to understand if the students are maintaining correct pace with the teachers or the concerned teachers need to make adjustment/correction according to needs of the students. One of the best ways to improve the knowledge and teaching capabilities of staff is to implement a 360-degree feedback program, which offers teachers an opportunity to receive actionable feedback towards professional growth and improved student achievements. This feedback evaluates against the competences as technical understanding, problem solving, leadership skills, interpersonal skills,

professionalism and contribution to the society by the teacher. To emphasis on enhancing the skills of students, stakeholder's feedback also plays a key role.

Feedback from all stakeholders in a subject area, including laboratory is taken. Institute collects feedback from the employers during campus interviews, alumni during alumni meets and students during their stay at the campus. The feedback helps in designing the training modules prepared by T P cell.

Employers and alumni give valid suggestions on curriculum development as well as infrastructure facilities.

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	The institution's Admission process is carried out centrally by Directorate of Technical Education (DTE) and AICTE norms and the rules, regulations of the Government of Maharashtra for admission of students. The seats are filled only on merit basis through MHT-CET cap rounds. Competent authority (State Govt) who publishes due notification for 12th std. students after declaration of results to fill an application form. Based on schedule prescribed by DTEMS, the seats are allotted to the students based on their JEE as well as CET rank secured.
Industry Interaction / Collaboration	Engineering graduates are to be educated and trained with a perspective of employability and sustainability. Internships are far more important as employers are looking for employees who are properly skilled. Internships are arranged for final year and pre-final year students and for Internship College have signed MoU with various reputed industries, Guest lectures and workshops are organized by Industrial experts as well. The suggestions are taken from Industrial experts to improve the curriculum. Certification for various courses is conducted which are in accordance with the needs of the industry that enhance the related skills of the students. The departments additionally build good affinity with the industries with the following means a) Inviting industrial experts to judge various technical events. b) Involving the experts from industry for mentoring and evaluation of project work for UG/ PG students. c) Developing the laboratories in collaboration with

industry experts in order to bridge the gap in curriculum.

#### Human Resource Management

Institute has mechanism of notification of regular posts and conduct interviews for faculty recruitment. The institution recruits faculty members and staff based on the guidelines provided by SPPU, Pune. At the entry level proper selection process is adopted to ensure the input of quality of staff appointed in the institute as per AICTE norms. Adequate number of qualified teaching and supporting staff are appointed through the procedure of open advertisement interview by expert committee. Apart from this, whenever deserving candidate approaches the Institute, it conducts interviews and offers suitable position. The recruited faculties are deputed to undergo faculty development program and short term training programs to enhance the teaching learning process.

#### Library, ICT and Physical Infrastructure / Instrumentation

Central Library has a collection of total volumes 15160 and total 4709 titles comprised of text reference books. Library has collection on 'General Reading Books' covering the areas of Fiction/Non-Fiction, Motivation, Leadership, Interview Techniques, Soft Skills, General Management, Competitive examinations such as GATE, CAT, MPSC, UPSC. Library has subscribed print as well as e-journals. E-database (DELNET). Library also proactively hosts the gateways of the subscribed e-resources accompanied with the links of training material to enhance the usage. Library has various sections such as reading room, stack room, reference section and digital library. Library gives many services to the user like Library Automation System, Smart Card (Identity Card Library Card), E- resources Internet, SDI Service, Digital Library, Reference Service, News Papers, Book Bank for students. The consumables are purchased regularly, as and when required to strengthen research activities. The library is also well equipped with required titles and volumes of text books, e-journals, computer hardware and software for conducive learning.

#### Research and Development

The Institute has good research facilities with well-equipped



laboratories, necessary instruments and software. Institute has provision for ICT, e-learning resources like LMS. E-journals and high-speed internet. The Institute has a well-structured policy for research promotion and funding. The RD cell of the institute has successfully motivated the students and faculty for undertaking research and patents by conducting workshops and seminars. Policies related to research are formulated by a core committee and IQAC, so as to smoothen and strengthen the research promotional activities.

#### Examination and Evaluation

Institute has a mechanism for conduction of examination by Controller of Examination (COE) who is responsible for planning and execution for In-Sem, End-Sem examination, online examinations and Oral /Practical examinations. The details of these examinations are announced well in advance after declaration from university circulars. Students are informed in advance about the evaluation methods. Apart from the examination conducted by SPPU, the institute asserts every department to conduct unit wise test. Taking that practice forward, subject teachers organize test after the completion of every unit, the answers sheet evaluations is done by subject teacher. Extra Lectures are taken for weak students for performance improvement. The term work/internal marks are awarded on the basis of the performances of the students in the tests conducted, attendance and overall class performance throughout the semester. The Examination Control room is made well equipped for conduction of any type of examination under SPPU, Pune.

#### Teaching and Learning

Teaching and Learning The institute has a well-disciplined academic culture for teaching-learning process meticulously in line with academic calendar. The academic calendar with proper schedule is prepared by all the department in line with SPPU Pune guidelines. The Institute has well defined process for identification of slow and advanced learners. Faculty takes efforts to empower them to perform better, by means of various activities. This process ensures



	systematic planning, intended execution, scrupulous monitoring and necessary improvements.
Curriculum Development	Curriculum Development Institute consistently pursues efforts to achieve institution quality objectives through the curriculum and expert session.. The institute follows the curriculum provided by the SPPU. The syllabus is framed or updated periodically for various disciplines. For this purpose, University arranges workshops at different colleges. Subsequently, the syllabus is finalized at University Board of Studies The institute implements curriculum through AMC, HoD and faculty members which is monitored by IQAC. The institute encourages and provides facilities for every faculty to actively involved in the syllabus preparation/discussion, meetings conducted by Board of Studies (BoS) at SPPU level. To support the curriculum enrichment periodic industrial visits expert lectures from industry, academia and research organization internship training programs organization and participation at various Workshops/Seminars, career guidance and many more student chapters where students get a platform to interact on various ideas leading to development of publications and projects.

#### 6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Finance and Accounts	YES
Student Admission and Support	YES
Examination	YES
Planning and Development	YES
Administration	YES

### 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
2020	Prof. A. U. Deshmukh	Two days National Workshop on Machine Learning for	SPPU, Pune	1260

		Data Analytics		
2020	Prof. S. H. Bodke	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2020	Prof. S. R. Dhanorkar	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2020	Prof. A. P. Badave	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Prof. S. A. Gandhi	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Prof. A. U Deshmukh	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Prof. P.V. Mulmule	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Dr. S. M. Kulkarni	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Dr. D. M. Dhane	Two days National Workshop on Machine Learning for Data Analytics	SPPU, Pune	1260
2019	Dr. P. M. Bagade-	Membership of professional body	FPSI	800
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	One Day State Level Workshop on How To Write Research Paper?	Nill	22/02/2020	22/02/2020	67	Nill
2020	Two days National Workshop on Machine Learning for Data Analytics funded by SPPU	Nill	07/01/2020	08/01/2020	25	Nill
2019	Faculty Development programme on Digital content development	Nill	14/12/2019	14/12/2019	26	Nill
2020	Nill	One day workshop on Awareness on "Covid-19 Preventive Measures", for Non-teaching Staff	01/04/2020	01/04/2020	Nill	10
2020	Nill	Wokshop on Awareness about digital Paltform for Non-Teaching Staff	08/02/2020	08/02/2020	Nill	10
2020	Nill	Training Program on	07/01/2020	07/01/2020	Nill	7

		"Effective Office Administration Financial Management"				
2020	Nil	Training Program on Library Automation and Digitisation"	28/01/2020	28/01/2020	Nil	3
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Innovative teaching pedagogy in the technical institutions	1	01/06/2020	05/12/2020	5
Effective Teaching methodology for Engineering Mechanics	31	12/06/2020	12/06/2020	1
Faculty Orientation Workshop S. E. (Mechanical, Automobile Mechanical(SW)) Revised Syllabus 2019C. Subject: Solid Mechanics	1	17/06/2020	23/06/2020	7
Futuristic Technologies in Mechanical Industries	1	05/06/2020	09/06/2020	5
Faculty Orientation Workshop S. E. (ETC/Electronics) Revised Syllabus 2019C.	1	22/06/2020	26/06/2020	5
Faculty Orientation Workshop S. E. (ETC/Electronic	1	22/06/2020	26/06/2020	5

s) Revised Syllabus 2019C. Subject: Data Structure (DS)				
Faculty Orientation Workshop S. E. (ETC/Electronics) Revised Syllabus 2019C. Subject: Data Structure (DS)	1	22/06/2020	26/06/2020	5
Faculty Orientation Workshop S. E. (ETC/Electronics) Revised Syllabus 2019C. Subject: Electronic Circuits (EC)	1	22/06/2020	26/06/2020	5

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#### 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
148	148	86	86

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance ,Provident Fund , Loan facility from JMCC bank ,Concession in tuition fee of wards, free transport facility	Group Insurance ,Provident Fund, Loan facility from JMCC bank, Free Uniform and accommodation , Free Transport Facility	Earn and learn scheme ,PadmabhooshanVasantdada Patil Scholarship, Book bank facility

### 6.4 – Financial Management and Resource Mobilization

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

Each department committee headed by the HOD, senior faculty members and the lab in charges prepare the annual requirements for recurring and non-recurring expenditure for each financial year. A detailed requirement is submitted to the principal. All the department requirements and college level requirements are discussed in Principal's meeting to finalize the total recurring and non-recurring budget requirements. Based on the requirements a college level budget is prepared by the accounts section. The comprehensive budget proposal is presented to the management for the final approval. After management's approval, each department is allotted the budget for the forth-coming year. While purchasing laboratory equipment, effective monitoring is done from quotations stage to the installation and commissioning stage. Any additional requirements that arise due to unforeseen expenditure shall be discussed in the HODs meeting and is requested to the management for approval. Principal conducts periodic reviews with HODs and accounts to make sure that the funds are utilized effectively.

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
Funds received from management	718250	Technical Activity, Expert lectures, Financial assistance for gymnasium
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6.4.3 – Total corpus fund generated

33880000
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## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Agency appointed By Principal	Yes	IQAC
Administrative	Yes	Agency appointed By Principal	Yes	IQAC

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

Parent – Teacher Association is functioning well in the Institution. Fruitful suggestions from parents during the parents meeting have empowered the administration to recognize their hopes and implement their suggestions for the healthier functioning of the institution. 1. Feedback from parents is collected in the prescribed format, analyzed and used for further development of the academics. 2. Effective coordination between GFMs and Parents has been established after critically analyzing feedback from parents. 3. Additionally, when there is a requirement regarding disciplinary problem or poor performance of student, the parents are contacted over the phone and counseling is held.

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

1. Training programs for support staff were conducted on Tally 2. Workshop on office management system was organized 3. Communication skills workshop was conducted for faculty for development of oral and written communication

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

1.Preparation of Educational /Cultural/Co-Curricular activity calendar of the institution for quality enhancement for the session 2019-20. 2. For academic excellence, subject-wise lesson plans for teaching are made by the teacher and IQAC monitors the quality of the contents developed through Academic Monitoring Committee (AMC). 3. The activity plans for each department, including industrial visits, students sponsored projects, site visits are designed and implemented through all the departments. 4. Faculty members are encouraged for taking up research projects (sponsored by industry or government agencies)

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
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b)Participation in NIRF	No
c)ISO certification	Yes
d)NBA or any other quality audit	No

#### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	ICT based teaching and other digital platform :	05/08/2019	05/08/2019	04/08/2020	1812
2019	Improvement in MoUs and collaborations with industries	12/09/2019	12/09/2019	20/03/2020	284
2019	Special efforts on improvement of communication skills of students	15/10/2019	29/10/2019	30/04/2020	380
2019	Green and Clean campus	01/08/2019	09/08/2019	08/08/2020	1812
2019	Implemented Internal Academic audit	13/11/2019	21/11/2019	20/03/2020	78
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### CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

#### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Awareness Programme on Women Safety and Respect	21/06/2019	21/06/2019	55	74
Seminar on Gender Sensitization	29/08/2019	29/08/2019	45	68
Beti Padhao Beti Bachao Campaign organised by	10/09/2019	10/09/2019	59	42

NSS				
Self Defence Workshop organised for girls organised by NSS	21/01/2020	21/01/2020	87	45
Session on Empowerment of women	12/03/2020	12/03/2020	43	53

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<p>The institute has taken many initiatives towards environmental consciousness and power saving through implanting non-conventional energy sources and green audit every year. A. Environmental consciousness: 1. Tree Plantation activity at PVPIT campus owing to planting most Oxygen producing trees dated 30.7.2019 (No. of students participated - 134) 2. Plastic garbage Mission: Conducted by students in PVPIT campus and surrounding areas, dated 14.09.2019. (No. of students participated -132) B. Energy Saving: 1. Use of LED lights in premises: We have 27.02 of energy saving achieved by using LED lights. Use of Renewable energy and recycling of waste drive: Conducted by students in PVPIT campus and surrounding area, dated 29.08.2019. (No. of students participated - 200) 2. Use of Solar panels: We have 1.97 of energy saving achieved by using Solar panels.</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	Yes	0
Any other similar facility	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	29/08/2019	2	Swachh Bharat Abhiyaan	Cleaned the campus	200



						and outside area of the college, giving the message to all about the need for cleanliness	
2019	1	1	11/09/2019	2	Expert lecture by Dr. Balesh Ropia, Senior Scientist, HEMRL, DRDO, Pune	Awareness about the rocket design	186
2019	1	1	23/09/2019	2	Blood Donation Camp	Spread the message to the community to come forward for help	50
2020	1	1	10/01/2020	2	Expert lecture by Dr. Kasturi Paigude, Prof. Flame University	Promoted Health awareness in local community and among the students of the college	167
2020	1	1	13/03/2020	2	Expert lecture by Jitendra W Badhe, Owner of Fire Engineering College and Company	Creating awareness among the students and nearby community about fire safety.	194
<a href="#">View File</a>							

Title	Date of publication	Follow up(max 100 words)
Code of Conduct(handbook) for various stakeholders	10/06/2019	With norms, rules and regulations for both faculty and students regarding disciplinary aspects for breach of rule(if any), punctuality and its importance, campus etiquette and wearing of uniform followed with dress code(Both girls and boys have dress code of Trouser and Shirt in summer season and Trouser, Shirt and Blazer in winter season. It is mandatory for students to wear I-cards in college premises). Attendance: As per SPPU, Pune norms students are given awareness about more than 75 attendance to be maintained.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yoga day	21/06/2020	21/06/2020	194
Environment day celebration	05/06/2019	05/06/2019	129
Independence Day	15/08/2019	15/08/2019	219
E Waste Awareness	29/08/2019	29/08/2019	200
Tree plantation	30/09/2019	30/09/2019	169
Gandhi Jayanti celebration	02/10/2019	02/10/2019	233
Paper bag making under plastic kachara mukta abhiyan	12/11/2019	12/11/2019	196
Republic Day	26/01/2020	26/01/2020	218
Shivaji Jayanti celebration	19/02/2020	19/02/2020	212
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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Following initiatives are taken to make campus eco- friendly. 1. Tree Plantation 2. E Waste Awareness 3. Plastic Free Pvpit 4. Swatch Bharat Abhiyan 5. Blood Donation Camp

### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

1) Title: Involvement of Module Coordinator in Academic Governance Institute practices multi-monitoring system for students at two levels. 1. Administrative level: This includes monitoring by Principal, IQAC, Dean Academics, Head of Department, Departmental Academic coordinator and Guardian Faculty Member. II. Academic level: This includes monitoring by Principal, IQAC, Dean Academics, Head of Department, Departmental Academic coordinator, module coordinator and course coordinator. I. Administrative level: In multi monitoring system, Principal is key person in IQAC who appoints dean academics(DA)and one faculty from each department is appointed as departmental academic coordinator (DAC)for planning as well as facilitated to faculties and students from academic and administrative point of view. DA and DAC prepares institute calendar for co-curricular and extra-curricular activities. Following the discussion with the HODs and principal and other experts in the line, HODs of respective department prepare departmental calendar and work load to the faculty is assigned. DAC is responsible for maintaining records of monthly attendance, status of syllabus completion and records of GFM activities. Expert subject faculties specially are allocated for difficult subjects and exclusive slots are kept in the time table for library as well as language laboratory. GFM is a guardian faculty member of a particular class who plays important role in mentoring of students(knowing the personal interests),monitoring their attendance, preparation of monthly attendance.GFM also acts as mediator between institute and parents. II. Academic level: In each department, different modules are formed as per the requirement which is controlled by the module coordinator. For a particular course one faculty is appointed as a course coordinator Through internal lab audit, availability of required infrastructure that is equipments, software and consumables are ensured along with internet connectivity and accessibility in classrooms special provision is made to train the students for difficult subjects to improve the results by module coordinators. Module coordinator works for overall quality enhancement in teaching learning process. His role is to guide the faculties for the preparation of course notes, PPTs, self recorded videos of theory and practical, question bank, teaching plan, MCQs, MOOC ,etc. His responsibility is to ensure that each course coordinator from his/her team are working in same direction and also uploading all teaching learning materials on Moodle, which can be easily accessed by the students. Module coordinators role is also to identify the gaps in the module with the help of course coordinators and to plan suitable curricular, co-curricular and extra-curricular activities at course level or program level to bridge the gap. Such practices lead to academic excellence and good placements of the students. For field exposures, industrial visits and various competitions are also arranged and these are monitored by IQAC. IQAC gives targets, using predictive result analysis which will maintain the academic motive among the faculties. To make industry finished product, projects, laboratories, internship are planned for institute industry interaction. And its feedback from the students is monitored time to time by HODs and IQAC members. Best Practice-2 Title of the Practice- Use of Advanced Technology and Digital Platform for Teaching-Learning Process Learning platforms, softwares and digital devices are together creating countless new ways to modify education. This way, the academic potential, strengths, weaknesses, aptitude and learning pace of every single student is catered to. Precise, mobile and reliable applications are being created to teach students, help them practice their learnings, take assignments and manage their schedules. Various Digital platforms used are Moodle, Google meet, Zoom, Google forms, etc which are aiding students in the teaching process, also helping them understand how to learn and enhance their learning process. The one size fits all teaching model is being supplemented by adaptive, personalized learning pedagogies. This new trend in learning is enabling students to be technologically skilled and equipped for modern workplaces. This online learning system is providing the two-way communication model between students

and course coordinators. Most importantly, it is letting students , track their coursework progress, identify improvement areas and offer ways to make the most of them. Video lectures allow students to learn subject syllabi at their own pace and dedicate time spent in class towards interactions. This is helping students to access the rich and interactive content, that will be useful for both training as well as performance enhancement. Also, feedback from students is collected from time to time on such digital platforms to enhance learning and improve assessment performance.

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

[http://pvpittssm.edu.in/igac/best\\_practices](http://pvpittssm.edu.in/igac/best_practices)

### 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

1)ROBOTICS CLUB Objectives: 1. To facilitate students to understand, design and learn robotics. 2. To update students about recent technological changes in industry. 3. To enhance employ ability and entrepreneurship. 4. To provide interested students with opportunities to express their skills, knowledge and creativity through conceptualizing, designing and programming robots.

Functioning: The robotics club of PVPIT is a student run club on campus with an active participation of more than 200 students. The institute sensitizes the thrust area in Mechatronics which is fast developing technology. Robotics Club was started by students group in 2013 and is coordinated by senior faculty of domain expertise from mechanical, computer, ETC departments. Within short period of time the robotics club is popular among the students. It took active participation in competitions like Robowar, Roborace, Robocon,etc organized by various institutes of national eminence. Also, students have participated and won prizes in various skill development clubs like Ebike, go-kart,etc.

Facilities: 1. Hydraulic, pneumatic components 2. Computers, PCB Printing, Soldering, Sensors. 3. Bench vice, grinder, drill, Files, cutters, tool box. 4.

Central machine shop with CNC/Drill/ milling and Lathe 5. Geared motors, drivers, controllers, wheels, etc/ Outcomes Achievements: • Event Name:

Technozion N'19 Novus (National Level Competition) Event Theme: 60 Kg Robowar Organizer : National Institute of Technology,Warangal Schedule : 03 Nov 2019

Venue: National Institute of Technology,Warangal Total Participation: 15 PVPIT

Rank: 1st • Event Name: Mind spark 2019(National Level Competition) Event

Theme: Dog fight Organizer: College of Engineering, Pune Schedule: 29 Sept.2019

Venue: College of Engineering, Pune Total Participation: 4 PVPIT Rank: 3rd •

Event Name: Technovanza VJTI (National Level Competition) Event Theme: Robowar

Organizer : VJTI, Mumbai Schedule : 27 Dec 2019 Venue: VJTI, Mumbai Total

Participation: 15 PVPIT Rank: 1st • Event Name: Technicia-2020 (National Level

Competition) Event Theme: ROBOWAR Organizer : AMITY UNI.,MUMBAI Schedule : 24

JAN,2020 Venue: AMITY UNI.,CAMPUS ,MUMBAI Total Participation: 5 PVPIT Rank:

1st • Event Name: Techfest-2021 (National Level Competition) Event Theme:

Robowar Organizer : IIT, Mumbai Schedule : 04 Jan 2021 Venue: IIT, Mumbai Total Participation: 10 PVPIT Rank: Semifinalist. • In future various robots will be

made in this robotics club to help students , participate and win the international competitions. This activity is helpful for student's placement and their carrier growth. 2)Student Patent Publications at National and

International Level Objective: The objective of this platform is to create

talent in engineering graduates for developing products which are useful to the society. At National level, total 471 patents have been granted and published

in Indian Patent Advanced Search System At International level, total 21

patents have been granted and published in "AU(Australia)Patent Search System"

3)Dowsing- Dowsing workshop is organized every year by the Department of Civil

Engineering. This year a total of 110 students participated. Various Experts were invited to guide students to search for underground supplies of water, metal, etc., by the use of a divining rod.

Provide the weblink of the institution

[http://pvpittssm.edu.in/igac/institute\\_distinctiveness](http://pvpittssm.edu.in/igac/institute_distinctiveness)

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

The IQAC has made the following plan for the coming year: Subject-wise course file preparation for teaching will be made by the teacher and IQAC will monitor the quality of the contents developed through Academic Monitoring Committee (AMC) and internal academic audits. Various activities related to industrial visits, students internships, sponsored projects and site visits will be conducted through all the departments. The IQAC has noted that there is further scope for improvement in effective Use of ICT based tool and various digital platforms for learning management (MOODLE). Efforts will be made in this direction to create more learning resources through faculty in terms of Video lectures. It is also needed to timely update the college website to disseminate the relevant information to all the stake holders. The IQAC plans to put special emphasis on building research culture and motivate student and faculty to undertake various industry based and research projects. There is a need to upgrade institute library with e-journals. Encouraging teaching faculty for their participation in more research activities and career development programs will be promoted and conducted. The hostel for both boys and girls is ready to use from commencement of academic year 2020-21 and students will be able to use it. IQAC plans to provide them all amicable atmosphere and ambiance required for academics. Efforts are planned to establish center of excellence in emerging technologies and the specific requirements by the industries.