Yearly Status Report - 2018-2019

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	**Chetankumar Mathuradas Sedani**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**020-22948002**
Mobile no.	**9763702580**
Registered Email	**principalpvpit@tssm.edu.in**
Alternate Email	**cmsedani@gmail.com**
Address	**S.N. 33/22 , Near. Chandni Chowk ,Opp. Athashree Project, Pirangut Road, Bavdhan , Pune 411 021.**
City/Town	**Pune**
State/UT	**Maharashtra**

Pincode	**411021**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. P. M. Bagade**
Phone no/Alternate Phone no.	**02022948000**
Mobile no.	**9075279575**
Registered Email	**iqac_pvpit@tssm.edu.in**
Alternate Email	**pramodbagade@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://pvpittssm.edu.in/iqac/AQAR_2018-19

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://pvpittssm.edu.in/iqac/academics_2018-19/academic_calendar

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.01**	**2018**	**02-Nov-2018**	**01-Nov-2023**

6. Date of Establishment of IQAC	**07-Feb-2017**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
ICT implementation in teaching- learning	15-Mar-2018 20	1728
Soft skill development	05-Jul-2018 3	600
Training programs for Improvement in Placement	18-Jul-2018 15	207
Promoting innovation and incubation	05-Sep-2018 90	60
Special efforts for enhancement of patents and copyrights	26-Jun-2018 6	250
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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/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institute	EAC	EDII, Ahmedbade	2018 3	20000
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**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	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**Yes**
If yes, mention the amount	**450000**
Year	**2018**

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

Various activities are conducted for the following items. The details are reported in the excel sheet attached. a. Academic Improvement b. Placement and Higher Studies c. Co curricular and Extracurricular activities d. Promoting Research and Development Initiatives e. Promoting incubation and startup culture

[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
Effective Use of ICT based tool for learning management (MOODLE,LMS, Eresources)	The Institute has done effective use through Moodle, LMS, Eresources for teaching
[View File](#)	

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

Name of Statutory Body	Meeting Date
Savitribai Phule Pune University, Pune	19-Aug-2019

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	**2019**

Date of Submission	**30-Jan-2019**

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

If yes, give a brief descripiton 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. The 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 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, academic calendar of institute is prepared in accordance with academic calendar of SPPU, which include academic activities such as university examination schedule for both theory and practical's, In Sem , End Sem and online examination. At institute level internal examinations, quiz, assignments and presentations are conducted. The other extra curricular and co-curricular activities such as guest/expert lectures, seminar/workshops, industrial/site visits are also included. Head of each department (HoD) allocates the theory and laboratory courses to faculty members according to area of specialization, skills and experience. The department academic calendar in-line with institute academic calendar for every semester is prepared for effective implementation of curriculum. The institute employs LMS (MOODLE) to disseminate all the necessary information, course material, question bank, MCQs, video lectures, important educational websites etc. to students and faculty. 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 verified and assessed by HoDs. Course files are maintained by respective faculty members, which contain all the material necessary for the effective implementation of the curriculum, which are evaluated by Academic Monitoring Committee (AMC) and concerned HoD as per the instruction received by IQAC before commencement of semester. AMC monitors 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. Periodical tests are conducted for theory subjects and mock examination for practical / oral. The remedial classes are conducted for slow learners, based on these evaluations. Faculty is encouraged to impart the curriculum through teaching methods such as Problem Based Learning, Project

based Learning, Inquiry training, concept attainment, outcome based education (OBE) strategy. The slow and advance learners are identified based on their test performance and class room interactions. Customized support is provided to them through additional inputs like extra lectures with proper assessment in practical and skill based learning after regular session. Departments maintain the detailed record of the classes, assessments, project reports and further progress under the IQAC administration. Views of experts from industry, academia and alumni are taken into consideration for improving overall curriculum. AMC conducts internal academic audit twice in a semester, ensuring achievement of academic outcome. IQAC also conducts Academic and Administrative Audit (AAA) at the end of every semester to evaluate and ensure quality requirements and provides guidelines to AMC and department for further improvement of academic quality.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engineering	16/07/2018
BE	Civil Engineering	16/07/2018
BE	Electronics and Telecommunication Engineering	16/07/2018
BE	Computer Engineering	16/07/2018
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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	Mechanical Engineering	16/07/2018
BE	Civil Engineering	16/07/2018
BE	Electronics and Telecommunication Engineering	16/07/2018
BE	Computer Engineering	16/07/2018
ME	Design Engineering	16/07/2018
ME	Heat Power Engineering	16/07/2018
ME	Construction Management	16/07/2018
ME	Computer Engineering	16/07/2018
ME	VLSI & Embedded System	16/07/2018

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

	Certificate	Diploma Course
Number of Students	0	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
Enterpreneurship Innovation	07/12/2018	88
Aeromodeling	08/09/2018	30
Communication Interpersonal skills	03/06/2018	92
Legal Aspects And Site Exposure in Civil Engineering	11/09/2018	78
Cyber security	04/10/2018	20
Arduino programming and real world interfacing	25/12/2018	21
Soft skill development	20/11/2018	60
PYTHON Programming	11/10/2018	30
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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	Mechanical Engineering	156
BE	Civil Engineering	36
BE	Electronics and Telecommunication Engineering	10
BE	Computer Engineering	11
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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
The institution follows the curriculum, as prescribed by SPPU, Pune and collects the feedback on curriculum aspects and courses from different stakeholders such as the parents, employers, teachers, alumni and students to monitor and evaluate the quality of teaching-learning and other academic and administrative processes. This mechanism of monitoring and improving the quality of students' learning experiences through the timely collection, analysis and reporting of student feedback to concerning teaching, learning and

related assessment. The feedback policy provides an opportunity to students and stakeholders to actively participate in the continual improvement of programs through recognizing, documenting, supporting and extending good practices for effective implementations of curriculum provided. Institution has been employing Academic Monitoring Committee (AMC) in order to ensure and analyze the academic excellence enrichment at student and faculty levels. Periodical analysis is made by AMC based on student performance as well as faculty performance in each semester and assures effective utilization of infrastructure. The college maintains an IQAC as a quality consistence and quality enhancement measure. IQAC thoroughly reviews the curriculum for every academic year. In support to IQAC, various departments and committees like Career Guidance, Anti-Ragging and Sexual Harassment Committee, etc. reinforce the curriculum by incorporating updated information and social issues. Further, college website and MOODLE invites stockholder to provide feedback through online also, which is also analyzed and utilized for academic improvement. The institute conducts annual Alumni Meet, in which suggestions and feedback is received from alumni and from parents during parents meets. Feedback from industrial management, R D establishments and professionals is obtained, which are used for deciding upon incorporating new value added courses. The feedback data is shared during academic review meetings for necessary corrective actions.

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	Computer Engineering(612224510)	60	76	59
BE	Electronics and Telecommunication(612237210)	60	53	27
BE	Mechanical Engineering (shift-I)(612261210)	120	86	57
BE	Mechanical Engineering (shift-II)(612261220)	120	48	37
BE	Direct Second Year Computer Engineering(612224580)	60	63	61
BE	Direct Second Year Mechanical Engineering (shift-I)(612261280)	60	63	34
ME	Construction Management(612221010)	24	24	24

ME	Heat-Power Engg. (Shift-II)(612259620)	24	24	2
ME	Design Engg. (Shift-I)(612260110)	24	24	10
BE	Civil Engineering(612219110)	120	67	41

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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
2018	1896	89	113	18	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	Numberof smart classrooms	E-resources and techniques used
131	129	10	21	6	10

View File of ICT Tools and resources

View File of E-resources and techniques used

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 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 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 institution also formed the various committees to resolve the problems of the students. The GFM provides the assistance to apply for the scholarships to needy students. The Institution provides fee waiver facility to economically weaker students in order to support them to continue their education. The GFM maintains the subject wise result of each student and if the 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
1985	131	15:1

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
131	109	22	22	8

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	Prof.C.M.Sedani	Principal	Editorial board member of International Journal of Innovation in Engineering and Science
2018	Dr.D.M..Dhane	Associate Professor	IEEE Senior Member
2018	Prof.S.A.Gandhi	Assistant Professor	NPTEL Online Course Certification
2018	Prof.P.A Patil	Assistant Professor	NPTEL Online Course Certification
2018	Prof. N. D. Kale	Associate Professor	NPTEL Online Course Certification
2018	Prof.S.C Choudhari	Assistant Professor	NPTEL Online Course Certification
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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	612219110	1st Semester	08/12/2018	28/01/2019
BE	612219110	2nd Semester	27/05/2019	22/07/2019
BE	612224510	1st Semester	08/12/2018	28/01/2019
BE	612224510	2nd Semester	27/05/2019	22/07/2019
BE	612237210	1st Semester	08/12/2018	28/01/2019
BE	612237210	2nd Semester	27/05/2019	22/07/2019
BE	612261210	1st Semester	08/12/2018	28/01/2019
BE	612261210	2nd Semester	27/05/2019	22/07/2019
BE	612261220	1st Semester	08/12/2018	28/01/2019
BE	612261220	2nd Semester	27/05/2019	22/07/2019
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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 students 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. Self-assessment of practical for students and faculty (Lab evaluation) are introduced in the academic for practical knowledge. For the faculty, teaching learning material preparation, course file content as per standard guidelines is offered by the institute. 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, and also sharing information on institute websites.

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 principal and IQAC, the respective department prepares an academic calendar for the department. It includes a schedule for unit tests, term end exam, many extracurricular and co-curricular activities like technical events, guest lectures, parent 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 are also conducted for the first year and second year engineering students to practice university online examinations. Unit tests are conducted in the midterm for the third and fourth year engineering students to practice for university in-sem theory examinations. The subject teacher prepares a monthly attendance report and the same is conveyed to students for further improvement. 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/po_pso_co

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students	Number of students passed	Pass Percentage

			appeared in the final year examination	in final year examination	
612219110	BE	Civil Engineering	134	110	82.08
612224510	BE	Computer Engineering	38	37	97.36
612237210	BE	Electronics and Telecommunication	26	22	84.61
612261210	BE	Mechanical Engineering (shift-I)	133	109	81.95
612261220	BE	Mechanical Engineering (shift-II)	118	85	72.03
612261280	BE	Direct Second Year Mechanical Engineering (shift-I)	58	49	84.48
612224580	BE	Direct Second YeaComputer Engineering	91	88	96.7
612221010	ME	Construction Management	19	14	73.68
612259620	ME	Heat-Power Engg.	3	1	33.33
612260110	ME	Design Engg.	8	8	100
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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)

http://pvpittssm.edu.in/iqac/academic_2018-19/sss

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
Interdisciplinary Projects	365	Syneotek software Solution	50000	0
Interdisciplinary Projects	365	Bajaj Auto Pvt Ltd Pune	100000	0
Interdisciplinary Projects	365	Johndeere Pvt Ltd Pune	100000	0

Students Research Projects (Other than compulsory by the University)	365	ARAI	51500	0
Students Research Projects (Other than compulsory by the University)	365	Armament Research and Development Establishment (ARDE)	100000	0
Students Research Projects (Other than compulsory by the University)	365	Defence Research and Development Organisation, Pune (DRDO)	100000	0

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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
Awarness Program For Intellectual Property Rights Patents	Computer Engineering	09/07/2018
Introduction to Intellectual Property Rights Patents	Mechanical Engineering	23/07/2018
Legal aspects And site exposer in civil engineering	Civil Engineering	11/09/2019
VLSI Design	Electronics and telecommunication engineering	15/11/2018
Patent Drafting and filing for engineering students	Mechanical Engineering	24/12/2018
Seminar on patent filing process	Computer Engineering	02/01/2019
Research Methodology Seminar	Electronics and telecommunication engineering	19/03/2019

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
Certificate of appreciation for Active SPOC by NPTEL	Prof. N.D.Kale	NPTEL	01/10/2018	Active SPOC

Online NPTEL certification for "outcome based pedagogic principles for effective teaching"	Prof. S.C.Chaudhari	NPTEL	01/10/2018	Course completion
National level project expo organize by K J college Trinity college, Pune	Sohan Pol team	K J college Trinity college,pune	01/12/2018	Winner
State level Project Competition at MODERN college of engineering, Pune.	Ganesh Bagul team	MODERN college of engineering, pune.	01/01/2019	Winner
Acceleration and design presentation at Mohite racing Academy, Kolhapur	Gokart Tram	Mohite racing Academy, Kolhapur	17/02/2019	1st rank
Techtonic Event	Kale Sidharth	Sinhagad Karandak, Sinhagad college of Engineering Pune	23/02/2019	1st Prize UG level
Water olympiad	Hinge Namdev , Hinge Vishal , gade Dipali, Sneha Dhage, Pradhya Gaikwad	Rotary Club Pune And Department of Civil Engg. D Y Patil College of Engineering, Akurdi, Pune	02/03/2019	2nd Prize at UG PG Level
TeXephyr 2019	Salman Shaikh, Arbaj Shaikh	MIT World Peace University	16/03/2019	1st Prize UG level
Auto India Racing Championship, 2K18	Gokart Tram	Auto India Racing Championship	24/03/2019	2nd Runner up
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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
Civil Department	Vivek Mide	Pune ZP Pune	Contractership	up to Rs 30 lakh cost of Civil Construction works	13/07/2018

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
0	0

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	Computer Engineering	2	2
International	Electronics and telecommunication Engineering	4	3.52
International	Mechanical Engineering	3	1.5

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
Computer Engineering	6
Civil Engineering	4
First Year Engineering	3

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 the publication	Number of citations excluding self citation
Hybrid based cluster head selection for maximizing network lifetime and energy efficiency in WSN	Prof. N.D.Kale	Journal of King Saud University-Computer and Information Sciences	2019	4	K. L. University, Vijayawada, A.P., India	4
Architectural	Prof. N.D.Kale	International	2018	0	K. L. University, Vi	0

analysis for lifetime maximization and energy efficiency in hybridized WSN model		Journal of Engineering Technology			jayawada, A.P., India	
An Efficient and secure finger vein Recognition Techniques using Intrnet of Things Era	Mrs. Shilpa Dhanorkar	Journal of Advanced Research in Dynamical and contol system	2018	0	PVPIT, Pune	6
Performance assessment of video stabilization algorithms based on L1-L2 optimization	Mr. S.M. Kullkarni	International Journal of Scientific Research and Review	2018	0	JNTU Kakinada	8
Bilateral filtering using New Histogram and Nerast Neighbour searching	Mrs. S.S. Waghchoure	Journal of Advanced Research in Dynamical and contol system	2018	0	PVPIT, Pune	6
A Method Based on Background Subtraction and Kalman Filter Algorithm for Object Tracking	Mrs. S.S.V asekar	2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA)	2018	0	SKNCOE Pune	8
Thermal performance improvement of domestic refrigerator with	Prof. R. P. Patil	IJSRD	2019	0	PVPIT, Pune	0

latent thermal energy storage system						
Thermal performance of wickless heatpipe flatplate solar collector with nanofluid	Prof. R. N. Todkar	STM Journal	2018	1	PVPIT, Pune	1
Analysis of stearing bracket to reduce its manufacturing failure	Prof. R. N. Todkar	STM Journal	2018	0	PVPIT, Pune	0

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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
Performance assessment of video stabilization algorithms based on L1-L2 optimization	Mr. S.M. Kullkarni	International Journal of Scientific Research and Review 64650	2018	6	8	JNTU Kakinada

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	1	0	70
Presented papers	3	1	1	0
Resource persons	2	0	0	0

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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
Environment Day Celebration	NSS,SPPU	3	25
Worlds Yoga Day	NSS,SPPU	40	160
Tree Plantation	NSS,SPPU	10	50
Mission Help Kerala	NSS,SPPU	10	25
Orphan Age Visit	NSS,SPPU	4	35
A spiritual lecture on "Youth and Revolution "	NSS,SPPU	5	120
Volunteers for Election Duty	Govt of Maharashtra	0	5
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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
Clean and Green Campus	TROPHY CERTIFICATE	Pune Municipal corporation	100
Volunteers Certificate	CERTIFICATE	Govt of India, Ministry of Youth, NSS SPPU	39
Swaych Wari –Swasth Wari	CERTIFICATE	Guinness World Record	100
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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 activites	Number of students participated in such activites
NSS	NSS,SSPU	Mission Help Kerala	10	25
NSS	NSS,SSPU	Paper Bag Making ,Under Plastic Kachara Mukta Abhiyan	4	45
NSS	Regional Outreach Bureau (Govt of India) SPPU	Pune Half Marathon	6	32
NSS	NSS,SSPU	Gandhi jayanti Celebration,Swatch Bharat Abhiyan	5	35

NSS	NSS,SSPU	NSS7 days Special Camp	5	50
NSS	Pune municipal corporation	Swatch Sarvekshan Purskar,2019	5	100
NSS	NSS,SSPU	Guinness world Record	40	100
		View File		

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 Fluid Mechanics	SE Mechanical Students	Institute	1
MTech Dissertation phase II examination	Dr. K. A. Sorate	Institute	1
Guest Lecture on Energy engineering	SE Mechanical Students	Institute	1
	View File		

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
Internship	Internship	BSNL	06/01/2018	22/01/2018	1
Industrial visit	Industrial visit	Horizon Chutes Pvt Ltd	09/12/2018	09/12/2018	30
Students Training	Embeded Systems Practicals as per Industry Perspective	Esston Technology Pvt. Ltd. Pune	26/03/2019	30/03/2019	27
		View File			

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 Pune	10/10/2019	Quality Improvement Program, Project guidance, Expert Lectures	5

Yashswavi Electronics, Dhayri, Pune	10/10/2019	Quality Improvement Program, Project guidance, Expert Lectures	7
Knowledge solution India a Microsoft authorized education Partner	20/05/2019	Resource Partner	2
Tripjao hospitality Services	24/06/2019	Organizing Industry Visit.	2
View File			

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
17.65	17.07

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
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Auto Lib	Partially	Auto lib-1.0.0	2010
KOHA	Partially	KOHA-18.11.02.000	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Others(specify)	57	0	20	0	77	0
Text Books	12585	14735324	114	79372	12699	14814696
Reference Books	2461	3691500	0	0	2461	3691500
e-Books	27000	160425	30000	182900	57000	343325
Journals	91	290650	90	289470	181	580120
e-Journals	3	1357989	1	657218	4	2015207
Digital Database	1	13570	1	13570	2	27140
CD & Video	839	0	7	0	846	0
Library Automation	1068	0	0	0	1068	0

Weeding (hard & soft)	0	0	0	0	0	0

<div align="center">View File</div>

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof.P.A.Dalke	Engg .Curves	MOODLE,You-Tube Channel	11/10/2018
Prof. S. A. Gandhi	Basis of DBMS and SQL	MOODLE	21/09/2018
Dr. D. M. Dhane	Getting Started with Matlab	Moodle	14/02/2019
Prof.S.J.Kokane	Youtube channel "chemistry" with SK	YOUTUBE	10/03/2019
Prof.P.M.Bagade	Tharmodynamics	Virtual Classroom	18/12/2019
Dr.C.M.Sedani	Career Guidance for Engineering Admission 2019	YOUTUBE	04/10/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	617	25	0	25	1	1	4	64	0
Added	0	0	0	0	0	0	0	40	0
Total	617	25	0	25	1	1	4	104	0

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

<div align="center">104 MBPS/ GBPS</div>

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 Center	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing
Recording facility	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing
Lecture Capturing System (LCS)	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing
. Interactive Board	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing

Self Learning Laboratory	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing
LCD Projector	https://pvpittssm.edu.in/campus_life/common_facilities#Video_Capturing

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 incurredon maintenance of physical facilites
88.3	85.39	77.93	75.37

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. As per the financial budget and requirement regarding various facilities, maintenance is done regularly. There are institute level committees that look after the various aspects of the utilization and maintenance of the facilities. In daily maintenance, complete cleaning of classrooms, libraries, seminar hall, VC room, laboratory and if there is requirement then repair of equipment is carried out to avoid emergency maintenance by housekeeping staffs.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 equipment's 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, celling and roof cleaning, painting work and other masonry works etc. The computers and ICT tools are monitored, and software updates and internet related problems maintained on regular basis by respective technical assistants. The College has Library Committee for effective accessibility and utilization of learning resources for students and faculty. It also includes physical verification of books as per academic calendar, wedding of books etc.is done as a part of regular monitoring and control. 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

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	1330	77024933

	Education, Social justice and special assistance department., Tribal Development department, Minority Development, VJNT,OBC and SBC welfare Department		
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
Soft Skill Development: Interviewers Expectation from Fresher's	04/08/2018	88	Mr.Saurabh Gupta,Tech Mahindra
Industrial Visit to Infosys	04/06/2018	20	Infosys Limited,Chandigad
Remedial coaching	01/04/2019	14	Subject Teacher: Prof..Shekhar Bodake
Worlds Yoga day Celebration	21/06/2018	200	Prof.S.A.Gandhi NSS Program officer, PVPIT
Career counseling Training Session for SAP	09/09/2018	56	Mr.Manoj Nazare, Primus Techsystems
Workshop on Embedded system	26/12/2018	32	Esston Technologies
Bridge Course: Industrial Visit	22/03/2019	180	Balaji Automobiles,Kothrud
Career Guidance training on placement activities	17/06/2019	42	Mr.Shilesesh Bobhate, Teekmark Network Pvt.Ltd.
Bridge Course: Industrial Visit to Reliance calibration Lab	10/08/2018	300	Reliance calibration Laboratory,Dhayari.
Bridge Course: Final year Internship	31/05/2018	14	MIDC Chakan

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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 competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Career Counseling: PIBM Edutech Internship Drive	0	118	0	85
2018	Career Counseling: Aptitude & Campus Drive Placement	0	150	0	80
2018	Career Guidance training on placement activities	0	56	0	56
2019	How to Crack GATE/ GRE Exam	412	0	4	0
[View File](#)					

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
8	7	8

5.2 – Student Progression

5.2.1 – Details of campus placement during 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
Jaro, Oppulant Tech., Zensar, Jkumar, Denasa, Savi Infrastructure, Bhandari Asso., I-Value, Smart Consultant, Veer Constructions,, Cell Plan Tech., Fab Alert Infras	150	101	FIS global, TCS, Infosys, Hudl India, Tata Motors, Exbuzz fire Pvt.Ltd, Siddheshwar Industries, Techon Engg.Pvt Ltd, Endurance Technologies	250	115

tructure, GEMS, Amazon, Qspider	

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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
2018	22	Engineering	Mech,ETC,CSE ,Civil	UCD ,Wayne State University O akland,,Sout h Estern Methodist University F lorida,,Nort h Estern University B oston,,Unive rsity of Texas USA,Cl eveland State University O hio,Hochschu le Universit y,Berlin,RMD Sinhgad Pune, PVPIT, Pune,AISSMS Pune, MIT Pune,	MS, M.E/MTech
2019	1	Engineering	ETC	South Estern Methidist Un iversity,Flo rida	MS

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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
GRE	2
Any Other	1
TOFEL	1

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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
Volleyball	Institute	60
Cricket	Institute	60

Kabaddi	Institute		35
Kho-Kho	Institute		55
Chess	Institute		50
Carrom	Institute		77
Singing and Drama	Institute		20
Dancing and Choreography	Institute		52

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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
2018	Secured First Place in Rollboll competition	International	1	0	IND43424209	Shubham Patil
2018	Splash n Dash	National	1	0	7331	Ajinkya Khamkar
2018	Rollball Championship	National	1	0	IND43424209	Shubham Patil
2019	Rollball Championship	National	1	0	IND43424209	Shubham Patil
2018	Zenith Vollyboll Competition	National	1	0	7659	Parikshit Deshpande
2018	Zenith Basketboll Competition	National	1	0	7659	Parikshit Deshpande
2019	Secured first prize in Direction Firodiya 2019	National	0	2	7659, 7653	Saurabh Biware, Vedant Naik
2019	Secured First Prize in Set	National	0	1	7659	Aveer Ravankar
2019	Secured First Prize Choreographer, Chaturastra Kalakar	National	0	2	7115	Prasad Vidhate

| 2019 | Secured First Prize Keyboard | National | 0 | 1 | 6083 | Keyur Karve |

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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 adults. The purpose of the student council is to give 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 helps for smooth conduction of various activities in Institutes like Technical fests, Sports activity and Annual gathering. Also it prevents ragging on the campus through counseling senior students, helping the administration whenever necessary. They suggests the administration to improve the student amenities to improve their career and personality by Guiding the junior and needy students to improve their technical, organizational and managerial skills by organizing different seminars, workshops etc. The Institute encourages students to enhance innovative and creative skills by organizing various programs. It will also organize various 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. Applications are invited from the students of all departments for posts in which they are interested to work under student council i.e. General Secretary, Cultural Secretary, Cultural Co-ordinator, Executive Member, Treasurer and Ladies representative. For selection process we have formed a panel having Principal and Director of institution as head of the panel and senior faculty members from different departments as member of panel. The process involves one to one interview cum interaction with students regarding the post he has applied for. Panel evaluates whether applicant is aware of all the roles and responsibilities of the particular post and whether he/she is capable of handling his/her duties sincerely and efficiently.

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 management. 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 once 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:

441

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

233450

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)

The institute follows participative and active role of all stake holders in process of academic and non academic practices. Academic Monitoring Committee (AMC) of faculty members, students and parents reveals effective decentralization and participative management inside the institute. Academic Monitoring Committee (AMC): AMC is Institutional level committee responsible for planning, regulating and implementing different academic policies. It is meant for smooth conduction of academics throughout the academic year. AMC is headed by Dean Academics along with the representative from stake holders acting as Departmental Advisory Board (DAB). AMC under IQAC and HoDs monitors the teaching learning process. As per the academic calendar of the institute which is prepared in-line with university academic calendar. HODs: They are responsible for effective implementation of teaching learning process by observation of academic activities. HODs confirm lab and subject course file, supports for internal audit, takes action against findings, issues show cause notice and also provides appreciation to faculty and reports to IQAC. DAB: They are stake holders from industry, parents etc. who provides their inputs for improving of teaching learning process in every semester, and also supports

student counseling part. Guardian Faculty Member (GFM): GFM monitors academic progress of students in a batch of 20 numbers which includes regular communication with them. Based upon communication a corrective action is initiated. National Service Scheme (NSS): The NSS is an Indian government sponsored public service program. Its primary aim is personality development through social (or community) service. The NSS motto is "Not Me, Not You, but We". The unit typically comprises students. They are managed internally by NSS committee of our institute. NSS has given us a platform to develop a sense of social and civic responsibilities in students and society, to use their knowledge in finding practical solutions to individual and community problems, to develop capacity to meet emergencies and natural disasters, to bring happiness and smile. Institute has a very dynamic NSS club to address all above issues. In this regard meeting of HOD's and NSS coordinator was arranged by Principal and there is NSS committee formed at Institute level for effective functioning. Student's members are added in committee as per university norms.

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
Library, ICT and Physical Infrastructure / Instrumentation	Library: The central library of the college is a repository of a vast number of learning resources including textbooks, reference books, national and international journals, digital resources, online journals, etc., all of which are enriched every year and software for tracking resource availability and an automated system for book/journal transactions. Additionally, there are departmental libraries to provide easy and quick access of resources to students. ICT: • A well equipped Language laboratory is available to improve communication skills of students using ICT resources. • Class rooms of each department are fitted with LCD projectors to enable power point presentation of the learning materials prepared by the faculty. • Placement cell conducts online tests as par requirement of employers for placement. • Provision to access NPTEL online course in self learning labs. • Learning Material distribution through MOODLE • Digital Library provides online access to e-journals and e-resources. Physical Infrastructure: • Adequate number of seminar halls and conference halls with air-conditioners and audio-visual facilities, video-conferencing facility are available. • All the computer labs are well equipped that fulfils the academic and research needs. • A Video

	Conference room, central library, department libraries, medical centre with an ambulance, sports centre, cafeteria, ATMs, adequate vehicle-parking space for students and Staff. • CCTV cameras are installed in corridors and main locations on the campus. • Adequate numbers of fire extinguishers at vantage points are kept and the staff and students are trained to handle it.
Human Resource Management	• 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. • The orientation program and faculty development programs are conducted periodically to improve the quality of the staff, Short term courses/workshops/Seminars/Conferences etc. to update their skills and knowledge. • Many benefits are given to the staff like Study Leave, Vacation, Medical leave, Maternity Leave (Female Staff), P.F., Revised pay scales, timely salary/increments/D.A. etc. • The performance based appraisal system is in place to review/evaluate the performance of the staff. In addition to this, there is an effective 360 degree feedback system is adopted. • The institute has training and Placement cell to identify current industry requirement and try to full fill by conducting certificate courses or training programs.
Industry Interaction / Collaboration	• The college has signed MoU with industries for Internships and placement. • Student internships are arranged for final year and pre-final year students. • Students are sent for internship to various reputed industries • Guest lectures and workshops are organized by Industrial experts • The suggestions of Industrial experts are involved in improving curriculum • Certificate courses are conducted which are in accordance with the needs of the industry that enhance the related skills of the students.
Admission of Students	The institution follows AICTE DTE norms and the rules of the Government of Maharashtra for admission of students. The seats are filled only on merit basis through MHT-CET. Competent authority 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 and CET rank secured.
Curriculum Development	The institute follows the curriculum provided by the SPPU. The institute implements curriculum through AMC, HoD and faculty members which is monitored by IQAC. The emphasize is made on motivating the faculty to identify bridge the gaps in curriculum. To attain Program Outcomes and achieve institute Short term, Long term goals, necessary steps are taken. The institute encourages and provides facilities for every faculty to actively participate in the syllabus preparation/discussion, meetings conducted by Board of Studies (BoS) at SPPU level.
Teaching and Learning	All the departments of the Institute prepares the academic calendar in tune with the Institute academic calendar. HoDs monitor the effective implementation of teaching plan and adherence to academic calendar. 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.
Examination and Evaluation	Institute has a mechanism for conduction of examination by Controller of Examination (COE) who is responsible for planning and execution for both 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. Students are informed in advance about the evaluation methods. Apart from the examination conducted by SPPU, the institute insists 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 which also happen in iterative manner until benchmarked result is achieved. 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.
Research and Development	The institution has Research Development Cell to promote research and inculcate research culture. Faculties are encouraged to apply for research grants by government bodies for their projects and also publish research papers in Indexed and peer reviewed journal and to present in conferences. Patents are filed by both faculty members and students. Faculty members are encouraged to attend seminars and workshops related to research. Faculties are motivated for industry sponsored project / product development / consultancy projects.

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

E-governace area	Details
Planning and Development	Yes
Administration	Yes
Finance and Accounts	Yes
Student Admission and Support	Yes
Examination	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
2018	Prof. S.A. Gandhi	Faculty Orientation workshop on Computer Networks and Security conducted by I2IT pune	-	500
2018	Dr. D.M. Dhane	Faculty Orientation workshop on Machine Learning conducted by VIIT Pune	_	450
2018	Prof. S.A. Gandhi	Computer Networks and Internet Protocol	_	1100

Year	Name	Title	Organisation	Amount
		organized by NPTEL		
2018	Prof. N.D. Kale	Educational Leadership organized by NPTEL	--	1100
2018	Prof. P.A. Patil	Engineering Metrology organized by NPTEL	--	1100
2019	Prof. Mosami P. Pulujkar	Workshop on Design and Implementation of IoT organized by Nutan Maharashtra engg college pune	--	500
2019	Prof. Megha V	Workshop on Effective Teaching Mathodology in Fluid Mechanics Conducted by Sinhgad College of Engineering, Pune	---	500
2019	Prof. Asati Ritika	---	The Indian Science Congress Association	2000
2019	Prof. H.A. Parate	Workshop on Effective Teaching Mathodology in Fluid Mechanics Conducted by Sinhgad College of Engineering, Pune	---	500
2019	Prof. D.B. Jasutkar	Workshop on Effective Teaching Mathodology in Fluid Mechanics Conducted by Sinhgad College of Engineering, Pune	---	500
		View File		

 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	---	TPO Meet at BVCOE, Pune	08/05/2019	08/05/2019	6	0
2019	---	Training on Various aspects pertaining to campus recruitmen t at Infosys Ltd, Pune	28/05/2019	28/05/2019	8	0
2018	STTP on In troduction to Structural Analysis and Design Sof6twares	-	03/12/2018	07/12/2018	20	0
2019	Expert Lectures on Teaching M ethodologi es and Learning Material D evelopment	--	22/04/2019	22/04/2019	72	0
2018	An approach to pedagogy learning	--	10/12/2018	12/12/2018	61	0
2019	--	Future Skills Leadership Summit for Training Placement Officers in Maharas htra	01/11/2019	01/11/2019	5	1
2019	----	One day workshop on Best Practices in Office Administra	22/05/2019	22/05/2019	0	25

		tion for non teaching staff				

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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
Faculty Orientation workshop on Computer Networks and Security	1	07/09/2018	07/09/2018	01
Faculty Orientation workshop on Machine Learning conducted by VIIT Pune	1	21/12/2018	21/12/2018	02
NPTEL Online Course on Computer Networks and Internet Protocol	2	20/07/2018	30/10/2018	80
Educational Leadership organized by NPTEL	3	20/07/2018	30/10/2018	80
Engineering Metrology organized by NPTEL	3	20/07/2018	30/10/2018	80
Workshop on Design and Implementation of IoT organized by Nutan Maharashtra engg college pune	3	22/02/2019	23/02/2019	80
Cloud Computing organized by NPTEL	2	23/01/2019	30/03/2019	80
Advanced IOP Applications organized by	3	23/01/2019	30/03/2019	80

NPTEL				
Ecology and Environment organized by NPTEL	2	20/07/2019	30/10/2019	80
Engineering Mechanics organized by NPTEL	5	23/01/2019	30/03/2019	80

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
131	131	94	94

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
o Group Insurance o Provident Fund o Loan facility from JMCC bank , Concession in tution fee of wards, free transport facility for women	o Group Insurance o Provident Fund o Loan facility from JMCC bank o Free Uniform and accomodation , o Free Transport Facility	o Earn and learn scheme o Padmabhooshan Vasantdada 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)

• The institute regularly follows Internal external financial audit system. • The account section in the office of the institute does the financial audit internally at institute level Once in a year. • External audit is done once in year for all income and expenditures of the institution by an external auditor appointed by the TSSM's Trust which conducts statutory audits once in every Financial Year i.e., after 31 March and submits the audit report to the institute. • Based on audit analysis IQAC plans the next academic year financial budget and submits to management.

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
Sponsorship, TSSM Trust, Alumni	913997	for Technothon 2019, institute and academic development

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6.4.3 – Total corpus fund generated

713500

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 | TSSM Group Academic Audit Agency | Yes | IQAC |
| Administrative | Yes | TSSM Group Academic Audit Agency | 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. Feedback from parents is collected in the prescribed format, analyzed and used for further development of the academics. There is effective coordination between GFMs and Parents. 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. Parents meet is conducted every year and suggestions, feedback of the parents are taken by the department on various aspects.

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

• Provision of part-time study for pursuing PhD • Staff development programs such as FDP, STTP , Orientation Programs, seminar, workshop etc. • Workshop on how to file Patent

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

• Improving academic involvement of students • Providing guidance for career development • organizing counselling sessions for students • Encouraging students for participation in competitive examinations, GATE, GRE, MPSC etc • Providing platform to participate in cultural and other activities. • Facilitating faculty for attending FDP, STTP etc.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
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
2018	ICT implementation in teaching-learning	15/03/2018	15/03/2018	05/04/2018	1728
2018	Training programs for Improvement in Placement	18/07/2018	18/07/2018	01/08/2018	207
2018	Promoting innovation and incubation	05/09/2018	05/09/2018	05/12/2018	60
2018	Soft skill	05/07/2018	05/07/2018	07/07/2018	600

2018	Special efforts for enhancement of patents and copyright	26/06/2018	26/06/2018	02/07/2018	250
2018	Standardization	29/06/2018	29/06/2018	29/06/2018	130

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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
Beti Bacho Beti Padhao	21/06/2018	21/06/2018	350	534
Self Defence Drive	07/10/2018	07/10/2018	296	478
Zero Tolerance Day	06/02/2019	06/02/2019	398	668
Gender equity program	05/03/2019	05/03/2019	256	564

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
The institute has taken many initiatives towards environmental consciousness and power saving through implanting non-conventional energy sources and green audit is conducted every year. A. Environmental consciousness: 1. Tree Plantation activitiy at PVPIT campus dated. 24.07.2018, 28.04.2019 (No. of students participated - 428) 2. E-waste collection drive: Conducted by students in PVPIT campus and surrounding area, dated 29.08.2018. (No. of students participated - 198) 3. Plastic garbage Mission: Conducted by students in PVPIT campus and surrounding areas, dated 14.09.2018. (No. of students participated - 132) B. Energy Saving: 1. Use of LED lights in presmises: We have 27.02 of energy saving achieved by using LED lights. 2. Use of Solar panels: We have 1.97 of energy saving achieved by using Solar panels..

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
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled	Yes	0

| | students | | | | | | |

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
2018	1	1	24/07/2018	2	To create awarness about importance of tree plantation and impact on ecosystem ,Campus drive	To create awarness about importance of tree plantation and impact on ecosystem , placement of students	147
2019	1	1	29/03/2019	2	E waste awareness and collection drive, Tree plantation	To create awarness about recycling of E waste which includes hazardous ingredients, , To create awarness about importance of tree plantation and impact on ecosystem	408

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct(handbook) for various stakeholders	11/06/2018	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
Independence Day	15/08/2018	15/08/2018	228
Republic Day	26/01/2019	26/01/2019	209
Environment day celebration	06/05/2018	06/05/2018	125
Worlds yoga day	21/06/2018	21/06/2018	200
Tree plantation	24/07/2018	24/07/2018	138
Mission help kerala	09/06/2018	09/06/2018	72
Paper bag making under plastic kachara mukta abhiyan	14/09/2018	14/09/2018	148
Orphanage visit	09/09/2018	09/09/2018	53
Spiritual lecture on 'youth and revolution	18/09/2018	18/09/2018	120
Gandhi jayanti celebration	02/10/2018	02/10/2018	224

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1 Environment day celebration 2 Tree plantation 3 Mission help kerala 4.Paper bag making under plastic kachara mukta abhiyan 5 Swachh Bharat Abhiyan 6. Mission Help Flood affected Zone- Satara (MS)

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1) Best Practice-1: Multi-monitoring system 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, course coordinator and subject teacher. 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 program coordinator. Each module is coordinated by module coordinator. For a particular course one faculty is appointed as a course coordinator. Through internal lab audit availability of required infrastructure that is equipment, 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. These coordinators also monitor course file and its quality following the discussion with HOD about quality parameters. In computer related subjects, MOODLE activities that are monitored by MOODLE coordinator which facilitates project based learning. 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- Social Awareness and Practice through National Services Scheme (NSS) NSS is an extension program, an integral part of higher education. The institute takes all efforts in imbibing national spirit, patriotism and volunteer ship in NSS, with the aim of producing responsible engineering graduates with awareness to social impact of engineering solution and contribution to national development. In this context, NSS unit of the institute has been very vibrant and contributing to various social causes through many activities. For its contribution, the institute has also received PMC swach sarvekshan award from the university. The unit has 100 students and a team of faculty advisor. Institute has conducted several NSS activities like tree plantation, plastic kacharamukht abhiyan, swach bharat abhiyan, mission help Kerela, yoga day. One week camp was organized in Gunand, Distt- Pune (MS) during which students interacted with the villagers and addressed various issues related to cleanliness, awareness of literacy, women empowerment and hygiene. Goals: 1. To create responsible socially sensitive citizen 2. To create sustainable engineers for society through their technical knowledge. 3. To enhance the life skill qualities 4. To promote the ethical and moral values towards nation building. Outcome: 1. NSS team achieved the Swachta Purskar under Swatch Bharat Abhiyan 2. NSS volunteers are able to face the social challenges and able to provide the solutions through different AISHE competitions . 3. NSS volunteers are ready to serve society by imitating awareness program like Mission Kerala help, Tree plantation and paper bag making activity for Environment awareness . Evidence of Success - The services of NSS have yielded satisfactory results to various disciplines as fruits of their hard labour and selfless service. The outcome of the outstanding performances of NSS is highlighted below: • Created good relations with the villagers. • Bestowing social and moral values • Helped to create healthy and

pollution - free villages ,city • Given awareness of various diseases like AIDS, Cancer.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://pvpittssm.edu.in/iqac/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

ROBOTICS CLUB 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, E TC 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,Baja,Supra,etc. 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. 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 Funds provided by: • TSSM Management • Mechanical Engineering Students Association (MESA) • Civil Engineering Students Association (CESA) • Computer Engineering Students Association (CESA) • Electronics Engineering Students Association (EESA) Outcomes Achievements: • Event Name: Olympus 2018 (State Level Competition) Event Theme:7Kg Robowar Organizer: SVERI'S College of Engineering, Pandharpur Schedule: 16 Sept.2018 Venue: SVERI'S College of Engineering, Pandharpur Total Participation: 10 Rank:1st and 2nd • Event Name: Mind spark 2018(National Level Competition) Event Theme: Aero modeling Glider Making(skill development club) Organizer: College of Engineering, Pune Schedule: 30 Sept.2018 Venue: College of Engineering, Pune Total Participation: 40 PVPIT Rank: 1st • Event Name: Robo-VRC 2018 (National Level Competition) Event Theme: Task Based Robot Challenge of completing the theme of "Operation Shakti of Pokhran Nuclear Test" Organizer : Veermata Jijabai Technological Institute, Mumbai Schedule : 27- 29 Dec 2018 Venue: Veermata Jijabai Technological Institute, Mumbai Total Participation: 40 PVPIT Rank: 2nd • Event Name: Geek Pawn 2018 (International Level Competition) Event Theme: Spy Robot Challenge 2018 Organizer : Keen Computing Technology,Shanghai Schedule : 24-25 Oct 2018 Venue: Himalayas Center Daguan Theatre, Shanghai Total Participation: 10 PVPIT Rank: 4th • Event Name: TECHNICIA 2K19 (National Level Competition) Event Theme: ROBOWAR 30 KG Organizer : AMITY UNI.,MUMBAI Schedule : 28-29 JAN,2019 Venue: AMITY UNI.,CAMPUS ,MUMBAI Total Participation: 25 PVPIT Rank: 1st Thus the robotics club is the institute's distinct activity of institute which satisfies the aspirations of students by leading India in robowar competition. Current Development: • This year some students participated in robotics competitions held at VJTI Mumbai and NIT Warangal. • In future various robots will be made in this robotics club activity to participate won the international competitions by making skilled engineers. This activity is helpful for student's placement their carrier growth by making

Provide the weblink of the institution
https://pvpittssm.edu.in/iqac/institute_distinctiveness

8.Future Plans of Actions for Next Academic Year

The IQAC has made the following plan for the coming year: 1.Preparation of Educational /Cultural/Co-Curricular activity calendar of the institution for quality enhancement for the session 2019-20. Subject-wise lesson plans for teaching will be made by the teacher and IQAC will monitor the quality of the contents developed through Academic Monitoring Committee (AMC). The activity plans for each department, including industrial visits, students sponsored projects, site visits will be designed and implemented through all the departments. The IQAC has noted that there is further scope for improvement in effective Use of ICT based tool for learning management (MOODLE,LMS, E-resources). 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. Besides this, establishment of E-learning center in the college library is targeted. There is a need to upgrade institute library with international journals, specially e-journals. Encouraging teaching faculty for their participation in more research activities and career development programs will be promoted. The development of the college campus Gymnasium is also proposed and accordingly, action will be taken. The hostel for both boys and girls is in progress and next year 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.