



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		MARATHWADA MITRA MANDAL'S COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. S.M. Deshpande
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02025479811
Mobile no.		8446447118
Registered Email		principal@mmcoe.edu.in
Alternate Email		iqac@mmcoe.edu.in
Address		Survey No. 18, Plot No.5/3, CTS No.205, Behind Vandevi Temple, Karvenagar, Pune.
City/Town		Pune
State/UT		Maharashtra

Pincode	411052																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Urban																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. Rupesh Jaising Yadav																		
Phone no/Alternate Phone no.	02025479812																		
Mobile no.	9923649649																		
Registered Email	rupeshyadav@mmcoe.edu.in																		
Alternate Email	rjyadav@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.mmcoe.edu.in/images/MMCOE_AQAR_2017_18.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mmcoe.edu.in/index.php/academics/academic-planer																		
5. Accrediation Details																			
<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>3.09</td> <td>2017</td> <td>30-Oct-2017</td> <td>29-Oct-2022</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.09	2017	30-Oct-2017	29-Oct-2022
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.09	2017	30-Oct-2017	29-Oct-2022														
6. Date of Establishment of IQAC	04-Jan-2016																		
7. Internal Quality Assurance System																			
<table border="1"> <tr> <td>Quality initiatives by IQAC during the year for promoting quality culture</td> </tr> </table>		Quality initiatives by IQAC during the year for promoting quality culture																	
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
IQAC Meeting Term-I A.Y. 2018-2019	22-Sep-2018 01	15
IQAC Meeting Term II A.Y. 2018-2019	27-Apr-2019 01	19
Executive Training Session on :	28-Mar-2019 01	21

8. Provide the list of Special Status conferred 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
Department- IT	State Level STTP	BCUD QIP SPPU	2018 05	75000
Department - Mechanical	AICTE QIP Refresher	AICTE QIP	2018 06	300000
Institute	Sports Equipment Purchase	BCUD	2018 365	100000
Institute	Entrepreneurship awareness camp	DST-NIMAT	2018 09	80000
Department-MBA	National STTP	BCUD QIP SPPU	2018 05	185000
Institute	Projects sponsored by the University/ College	BCUD, SPPU	2018 365	120000
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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?	No

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

Executive Training Session on : "Six Sigma" was arranged for MM group and Intellectual Property Research sessions for students for TE and BE of all the departments of MMCOE were arranged.

Permanently affiliated from Savitribai Phule Pune University, Pune and Process of application to 2(f) and 12(B) of UGC Act, 1956 is under process.

Prequalified for NBA Accreditation of Mechanical Engg, IT and Electrical Engg Programmes, eNBA SAR submitted and committee expected

"Marathwada Mitramandal Center for Invention, Innovation & Incubation (MM-CIII)" in association with TATA Technologies Ltd and Science & Technology Park (STP), Pune worth Rs. 18.00 Crore is established in the academic year 2018- 19.

The Centre of Excellences in Mechanical, Computer, IT, E&TC and Electrical Engineering has been established.

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

Plan of Action	Achievements/Outcomes
Industry Institute Interaction to be improved	MOUs has been increased upto 41
Permanent Affiliation from Savitribai Phule Pune University, Pune	Extensive efforts are taken by IQAC and Received Permanent Affiliation from SPPU
IQAC Meetings Scheduled	Conducted on 22/09/2018 and 27/04/2019
Internal IQAC audit is initiated in each department with NAAC guidelines	Internal IQAC audit is carried out in each department with NAAC guidelines
Process of NBA Accreditation	Prequalified, eNBA SAR filled and committee expected for Mechanical Engineering, Information Technology and Electrical Engineering Programmes
Review of Centre of Excellence in each Department	Skill upgradation by Centre of Excellence in each department
Review & analysis of Academic Results	The academic results are improved
Modification in API (Appraisal Performance Index) under PBAS	API (Appraisal Performance Index) is discussed, analysed and modified

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Development Committee	13-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	21-Feb-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Institute is in process of developing its own MIS system. Below is the list of functionalities available in the system: i. Admission module : a) Student Registration b) Uploading Students personal and academic information c) Document uploading d) Information document verification e) Exporting student information ii. Academic Module (in process): a) Staffwise subject allocation b) Classwise student allocation c) Subject related data uploading d) Student Attendance e) Defaulter list iii. Feedback module(in process): Staff feedback is to be collected from students.

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

Institution efficiently plans and monitors the activities for the effective implementation of the curriculum. Every faculty member gives choices of the subjects for the new semester as per their expertise. Academic planner and departmental calendar is prepared from the calendar published by the University. Theory and practical teaching plans, course files, lab manuals, question bank with explanations, assignments are prepared by the faculty members before start of new semester along with other teaching material including content beyond syllabus, virtual lab experiments etc. are shared with all the students by the respective subject teacher on Google Apps. Academic monitoring committee continuously monitors the schedule of classes, practical's and tutorials through daily attendance. Institution has provided all class

rooms with LCD projector and internet access. NPTEL videos, contents from online courses and webinars are used by faculty members for effective curriculum delivery. Each department assigns teacher guardians to all the students in a batch of 20 students. They regularly take feedback from students and try to solve their problems by counselling and keeping record of the university examination marks and extra-curricular activities in a booklet. Each department regularly evaluates the students through continuous assessment system such as offline and online (MyExamo for First and Second year students) class test, mock practical/orals, assignments, tutorials, surprise tests, quizzes, group discussions etc. Subject teacher monitors the performance of each student and conducts remedial classes for further improvement. Interdepartmental and departmental academic coordinators conduct the academic audit of faculty members thrice in a semester and submit the report to the HODs, Dean Academics and Principal for corrective actions. Institution has formed various functional committees to focus on specific areas such as academic monitoring, time table, theory, practical & unit test examinations, technical events and so on. Performance and attendance of all the students is regularly communicated to parents through teacher guardian by telephonic conversation, SMS and through e-mail communications. Institution encourages and sponsors faculty members to organize and attend faculty development programs (FDPs) for enriching their subject knowledge and to enhance the interaction among the peer group. Faculty members visit industries related to their subject to gain knowledge of the latest development carried out in the respective domains as a part of Industry Institute Interaction through Corporate Relations Division (CRD). Each department has allotted two hours sessions per week in the class time table for enhancement of employability skills through CRD. To improve the employability skills of the students, every department in the Institution conducts various short term certification and add-on courses like C, C++ Programming, Data Structures, CATIA, CCNA, IoT, Basics of JAVA, Geometric Dimensioning & Tolerance (GD&T) etc. Institution has various student chapters such as SAEINDIA, ISHRAE, ASHRAE, IETE, ACM, CSI, ISACA, ISTE, IE (I) etc. to keep the pace with the research and recent advancements in the specific domains. Library is kept open for all the students after the Institution hours. During examination period, the reading hall is kept open for 24 hours including Sundays.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
One Day Workshop on "Introduction to Enterprise Java and Spring Boot under CSI"	NA	25/08/2018	01	Employability	Develop professional skills required for projects
Two days FDP on "Data Analytics"	NA	22/06/2018	02	Employability	Improve Prediction analytics capability
Two days FDP on "Open MP"	NA	11/06/2018	02	Employability	Ability to improve high performance computing

Wind Energy Systems	NA	06/07/2018	02	Employability and Entrepreneurship	Key concepts of wind energy systems
Automation Technologies	NA	23/07/2018	02	Employability and Entrepreneurship	Automation, Control panel design and PLC Applications
Power Electronics, component selection, testing and prototype making	NA	23/07/2018	02	Employability and Entrepreneurship	Selection of components, testing, PCB designing.
5 days FDP on "AI using Machine Learning Deep Learning	NA	06/06/2018	05	Employability	Develop professional skills required for Data analytics using AI with Machine Learning and Deep Learning.
Two days workshop on " Internet of Things: Towards a Smart Future 2K18"	NA	21/09/2018	02	Employability/ entrepreneurship	Implementation of IOT based projects
One week Faculty Development Program on ' Recent Trends in Mechanical Engineering'	NA	10/12/2018	05	Employability	Skill improvement practical interfacing with 3D image camera
Dassault Certification course on CATIA	NA	18/03/2019	14	Employability	CAD, CAM drawing, design and development
Applied Psychometry and Heat Load Calculations	NA	27/08/2018	10	Employability	Improving practical knowledge of HVACR subjects
One week STTP on Advances in	NA	17/12/2018	06	Knowledge enhancement	Skill improvement

Engine Design						
Product Design and Development Concept to Production	NA	06/04/2019	07	Knowledge enhancement	Automotive Engine and new product development	
Hands on Workshop on Machine Learning	NA	06/10/2018	01	Employability/ entrepreneurship	Data analytics by using Anaconda and Python	
4 days Workshop on "Requirement Specification Design of Projects"	NA	17/08/2018	04	Employability/ Entrepreneurship	Develop professional skills required for projects.	
4 days training program on "Data Science" followed by "Microsoft Certification" in Association with ATS Technologies Pvt. Ltd.	NA	09/10/2018	04	Employability/ Entrepreneurship	Enable to enhance the skills of Data Science	
2 days State Level Workshop on "Augmented Reality and Mixed Reality"	NA	07/12/2018	02	Employability/ Entrepreneurship	Develop the skill set related to Augmented Reality and Mixed Reality.	
2 days workshop on "Cyber Security Ethical Hacking"	NA	08/02/2019	02	Employability/ Entrepreneurship	Enhanced the skill set related to cyber security and ethical hacking	
Two Days National Level Workshop on Business Analytic: Business Intelligence By Machine Learning	NA	13/02/2019	02	Employability	Develop Skills of Business Analytics	

through 'R'						
Two days Workshop on Entrepreneurship Awareness	NA	05/03/2019	02	Entrepreneurship	Guide Motivate students about Entrepreneurship	
One day Faculty Orientation Workshop on Internet of Things in Association with BoS (Electronics/ E TC), SPPU, Pune	NA	12/07/2018	01	Employability/ entrepreneurship	Practical exposure of IOT based projects	
Hands on Training on PCB Design and Development of PIC based Board	NA	28/08/2018	02	Employability/ entrepreneurship	Design and development of PCB	
Two days workshop on " Internet of Things: Towards a Smart Future 2K18"	NA	21/09/2018	02	Employability/ entrepreneurship	Implementation of IOT based projects	
Two day Faculty Orientation Workshop on " Revised Syllabus for the subject Mobile communication"	NA	13/12/2018	02	Employability	Revised syllabus 2015 course discussion for faculty	
3 Days workshop on " Machine Learning using Python"	NA	28/01/2019	03	Employability/ entrepreneurship	Hands on session on Machine Learning using Python	
Two days workshop on " Arduino Interfacing"	NA	08/02/2019	02	Employability/ entrepreneurship	Hands on workshop on basics of arduino and its interfacing with sensors and actuators	

Two Days Workshop on " IoT using Raspberry pi"	NA	01/03/2019	02	Employabilit y	Develop projects on IoT
One day Workshop on Blender: Open Source 3 D tool	NA	20/02/2019	01	Employabilit y	Develop professional skills required for graphics and animation industry
Six days Faculty Development Programme (FDP) on "Cyber Security"	NA	11/02/2019	06	Employabilit y/ entrepren eurship	Got exposure for coding, phishing, SQL Injection operation
One day workshop on "Web application Development using python	NA	07/02/2019	01	Employabilit y	Development of web application using python
Two days workshop on "Information Cyber Securities"	NA	30/01/2019	02	Employabilit y	Got exposure for coding, phishing, SQL Injection operation
One day Workshop on "AngularJS" under CSI	NA	22/09/2018	01	Employabilit y	Development of project using Angular JS

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Social Media Analytics (414464D)	15/12/2018
BE	Solar and Wind Energy (402050B)	18/12/2018
BE	Machine Learning (404191 Ele III)	18/12/2018
BE	Artificial Intelligence (404185, Elec. II)	15/06/2018
BE	Internet Of Things (404184 Elec. I)	15/06/2018
BE	Soft Computing and Optimization Algorithms (410252D)	18/12/2018

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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
ME	ME 2nd Year Sem I Pattern Recognition) Computer Engineering	15/06/2018
BE	Power Quality (Elec. I) Electrical Engineering	15/06/2018
BE	Restructuring and Deregulation (Elec. II) Electrical Engineering	15/06/2018
BE	EHVAC Transmission (Elec. II) Electrical Engineering	15/06/2018
BE	High Voltage Engineering (Elec. III) Electrical Engineering	17/12/2018
BE	Smart Grid (Elec. IV) Electrical Engineering	17/12/2018
BE	Illumination Engineering (Elec. IV) Electrical Engineering	17/12/2018
BE	Internet and Web Programming (Elec. III) Information Technology	15/06/2018
BE	Internet of Things (IoT) (Elec. III) Information Technology	15/06/2018
BE	Social Media Analytics (Elec. IV) Information Technology	15/12/2018
BE	Digital Image and Video Processing (Elec I) Electronics and Telecommunication Engineering	15/06/2018
BE	Internet Of Things (Elec. I) Electronics and Telecommunication Engineering	15/06/2018
BE	Electronic Product Design (Elec. II) Electronics and Telecommunication Engineering	15/06/2018
BE	Artificial Intelligence (Elec. II) Electronics and Telecommunication Engineering	15/06/2018

BE	Finite Element Analysis (Elec I) Mechanical Engineering	15/06/2018
BE	Automobile Engineering (Elec. II) Mechanical Engineering	15/06/2018
BE	Operation Research (Elec.II) Mechanical Engineering	15/06/2018
BE	Energy Audit and Management (Elec.II) Mechanical Engineering	18/12/2018
BE	Industrial Engineering (Elec. III) Mechanical Engineering	18/12/2018
BE	Solar and Wind Energy (Elec. IV) Mechanical Engineering	18/12/2018
BE	Advance Manufacturing Process(Elec. IV) Mechanical Engineering	18/12/2018
BE	Audio Video Engineering (Elec. III) E&TC Engineering	18/12/2018
BE	Machine Learning (Elec. III) E&TC Engineering	18/12/2018
BE	Wireless Sensor Networks (Elec. IV) E&TC Engineering	18/12/2018
BE	Data Mining and Warehousing (Elec.I) Computer Engineering	15/06/2018
BE	Software Architecture and Design (Elec.I) Computer Engineering	15/06/2018
BE	Software Testing and Quality Assurance (Elec.II) Computer Engineering	15/06/2018
BE	Soft Computing and Optimization Algorithms (Elec. III) Computer Engineering	18/12/2018
BE	Cloud Computing (Elec.IV) Computer Engineering	18/12/2018

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

	Certificate	Diploma Course
Number of Students	1779	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
Dassault Certification course on CATIA	18/03/2019	28
Applied Psychometry and Heat Load Calculations	27/08/2018	27
Hypermesh 17.0 Software	11/10/2018	30
Hands on workshop on Vehicle Interior Design	10/01/2019	20
Hands on Training on PCB Design and Development of PIC based Board	28/08/2018	38
Two days workshop on " Internet of Things: Towards a Smart Future 2K18"	21/09/2018	72
Advanced Data Structures using C	02/03/2019	58
4 days training program on data science followed by Microsoft certification in association with ATS Technologies PVT LTD	09/10/2018	8
Web Race	16/01/2019	20
Logicious	16/01/2019	27
Mapathon	12/02/2019	40
Hackathon (Hacksprint v.1)	22/03/2019	77
Wind Energy Systems	06/07/2018	53
Automation Technologies	23/07/2018	36
Power Electronics, component selection, testing and prototype making	23/07/2018	29
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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	Information Technology	83
MBA	Master of Business Administration	51
BE	Mechanical Engineering	229
BE	Electronics and Telecommunication Engineering	237

BE	Computer Engineering	104
BE	Electrical Engineering	75
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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
<p>Feedback from students, alumni, parents, employers is proactively utilized for enhancing the overall development of the Institution. • Every department is conducting graduate exit survey about the teaching learning process, curriculum, cocurricular extracurricular activities, infrastructure facilities, continuous improvements, industry supports (Training/Placements) and satisfaction of PEOs, POs PSOs. Corrective action is implemented after discussion in departmental and IQAC meetings. NPTEL videos, contents from online courses and webinars help the students to enhance their technical knowledge. • Every year, Institution organizes Annual General Meet by inviting alumni with the use of Information and Communication technology. They interact with faculty members and students, sharing their knowledge which creates strong bond for getting projects, internships, trainings, job links etc. Feedback collected from alumni is discussed in departmental meetings and corrective measures are implemented. • Feedback collected from the experts, project examiners about the students is used to enhance the quality of projects. • Employer’s feedback is taken during the campus recruitment to enrich the curriculum and to cover content beyond syllabus for better employment opportunities. Institution is having strong Industry Institution Interaction through faculty liaisoning. Every faculty is liaisoned with at least one industry of his/her choice. Faculty liaisoning outcomes in the form internships, sponsored projects, industrial visits, expert lectures from industry, support for RD, consultancy, MoUs, Placements, lab developments etc. are collected through Industry Institution Interaction subcommittee. • Feedback from parents is collected during every departmental parents meeting. Suggestions given are discussed in faculty meetings and corrective actions are initiated. • Feedback given by the participants during the conferences, workshops, State National level programs is utilized for organizing future programs. • Constructive suggestions given by students, alumni, participants in conferences are discussed in the departmental meetings, with deans and implemented after the approval from IQAC. • Adjunct faculty members are associated with the Institution to mentor students in their domain expertise for industry projects, seminars, placements, internships, MoUs, case studies etc. • Feedback collected from the stakeholders is represented time to time at various levels during the syllabus setting and detailing workshops organized by the University and Board of Studies (BoS) meetings. • Institution organizes various enrichment programs which focus on the human values, employable and life skills, creating competency in the technology and quest for excellence. IQAC monitor and evaluate the performance of the enrichment program. Paper presentations, project competitions, alumni talk and other such activities are</p>

organized by different student chapters where the evaluation is done by academic and industry experts.

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	127	146	124
BE	Electronics & Telecommunication Engineering	127	146	107
BE	Electrical Engineering	64	61	52
BE	Information Technology	64	68	55
BE	Mechanical Engineering	127	138	115
BE	Mechanical Engineering (Second Shift)	63	72	59
MBA	MBA	60	60	60
ME	Master of Computer Engineering	18	11	10

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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	2347	135	112	9	121

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
121	121	5	27	0	14

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

It was observed that, in order to improve performance of the students with respect to their attendance, results and participation in various activities, there is a close association between teachers and students. In addition, some of the students need personal guidance and counseling. The Institution follows a student's mentoring

system through teacher guardian scheme wherein the academic and personal issues of the students are looked after. The Teacher Guardian scheme is developed to closely monitor every student's academic performance and ensure that his/her performance improves. TG scheme also ensures that parents are regularly updated about their ward's progress. The Institution has also appointed professional counselors to address the personal, psychosocial and other problems of the students. The Corporate Relations Division Cell of the Institution assists the students by conducting trainings, seminars and workshops for their overall grooming thereby making them eligible for better placement opportunities. The Institution provides fee waiver facility to economically weaker students in order to support them to continue their education. Various committees are in place to motivate and encourage the students to participate in competitions at different levels.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2347	121	1:20

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
121	121	0	28	18

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Rupesh Yadav	Professor	SPPU 2018 Recognition as a Ph.D. Research Guide
2018	Dr. Vijay Bhatkar	Associate Professor	ISHARAE/ISHARAE 2018 Appreciation for his valuable contribution as K12 Chair and CWC Member
2019	Mr. Vasant Deokamble	Assistant Professor	Resource person for RProgramming at VIIT, Pune
2019	Ms. Sampada Tavse	Assistant Professor	Guest Lecturer for "Digital Signal Processing" for TE ETC at Zeal College of Engg, Pune
2019	Dr. Vijay Gohokar	Professor	Technical Committee member of IEEE 2nd International Conference on Power and Energy Applications (ICPEA 2019), Singapore
2019	Dr. Vijay Gohokar	Professor	MOCK Evaluator at Jaihind College of Engineering,

			Junnar, Pune
2019	Dr. Manoj Tarambale	Associate Professor	PhD Completion
2019	Dr. Sandeep Chaware	Professor	HOD of the Year Award (HYA) by InSc (Institute of Scholars), Bangalore
2019	Dr. Sandeep Chaware	Professor	Session Chair in cPGCON 2019, SPPU Pune
2019	Ms. Harmeet Kaur Khanuja	Assistant Professor	Reviewer, IET (The Institute of Engineering and Technology) Journals, Feb 2019
2019	Ms. Anita Shinde	Assistant Professor	Received appreciation for contributing to the software training and awareness event, Spoken Tutorials, IIT, Bombay
2019	Ms. Anita Shinde	Assistant Professor	Successful completion of Course "Data Science for Engineers", NPTEL Online Certification, JanMar 2019 (Score 64)
2018	Ms. Pooja Dhule	Assistant Professor	Successful completion of Course "Introduction to Machine Learning", NPTEL Online Certification, Nov 2018 (Score 68)
2019	Ms. Abhilasha Kulkarni	Assistant Professor	Successful completion of Course "Data Science for Engineers", NPTEL Online Certification
2019	Ms. Asma Shaikh	Assistant Professor	Reviewer, Article "Survey: Time Series Data bases and their applications (Sensing as a service and Big data) of regular

			Issue for Advances in Science ,Technology and Engineering Systems Journal, Aug 2018
2019	Ms. Asma Shaikh	Assistant Professor	Appreciation for contribution in one Day Workshop " Web Application Development using Python Framework" on 7th February 2019, Duration - 5hrs by FossEST Technologies private Ltd.
2019	Ms. Ashwini Bhugul	Assistant Professor	Appreciation for contribution in one Day Workshop " Web Application Development using Python Framework" on 7th February 2019, Duration - 5hrs by FossEST Technologies private Ltd.
2019	Dr. Vijay Bidave	Associate Professor	Awarded Elite grade in NPTEL Online Certification for Big Data Computing
2019	Dr. Vijay Bidave	Associate Professor	Completed NPTEL AICTE FDP on Roadmap for Patent Creation
2019	Dr. Vijay Bidave	Associate Professor	Judge for poster presentation competition organized by IT Department of Smt. Kashibai Navale College of Engineering, Pune
2019	Ms. Preeti Joshi	Assistant Professor	Completed NPTEL AICTE FDP on Block chain Architecture Design Use Cases
2019	Mr. Swapnil Shinde	Assistant Professor	Developed solution manual for programming in ANSI C by E. Balguruswami, under Tata McGraw Hill (India) Pvt. Ltd.

2019	Mr. Swapnil Shinde	Assistant Professor	Resource person for Training Program on Middleware Technology at SCOE, Pune
2019	Mr. Swapnil Shinde	Assistant Professor	Resource person for Training Program on Middleware Technology at Zeal COER, Pune
2019	Dr. Sudhanshu Gonge	Assistant Professor	Published Patent on "System for secure digital transmission techniques using advanced encryption standard frequency domain technique"
2019	Ms. Rashmi Bhattad	Assistant Professor	Resource person for Handson Workshop on Computer Graphics Programming at Dr. D. Y. Patil Ambi
2019	Dr. K.R. Patil	Associate Professor	Outstanding Reviewer Renewable energy, ELSEVIER
2019	Dr. Alka Sawaikar	Associate Professor	Indian Institute of Technology Kanpur, Organized course 'Basics of Special Theory of Relativity'. (18 Dec 2018 to 8 Mar 2019)
2018	Ms. Manisha Dudhedia	Assistant Professor	Appreciation for foresting an eco system bridging Government, Industry and Academia by Texas Instruments
2018	Ms. Priya Sawant	Assistant Professor	Awarded Elite grade for NPTEL course in Outcome Based Pedagogic Principles for Effective Teaching
2018	Ms. Mrinalini Pangaonkar	Assistant Professor	Awarded Elite grade for NPTEL course in Educational Leadership
2018	Ms. Rajeshwari Malekar	Assistant Professor	Awarded Elite grade for NPTEL course in Outcome Based

			Pedagogic Principles for Effective Teaching
2018	Ms. Swati Deshmukh	Associate Professor	Resource Person for FDP on "BE(ETC/Elex) Revised syllabus 2015 course" for the subject Electronic Product Design under the aegis of BOS ETC , SPPU, Pune
2018	Ms. Kirti Bihade	Assistant Professor	Resource Person for FDP on "Machine Learning Deep Learning" at VIT, Pune
2018	Ms. Kirti Bihade	Assistant Professor	Resource Person for Faculty Development Program on "Artificial Intelligence using Machine Learning and Deep Learning" at MMCOE, Pune(IT Department)
2018	Ms. Anagha Kunte	Assistant Professor	Published Patent on " Apparatus for detecting adulteration in petroleum and non petroleum oils"
2018	Mr. Pravin Choube	Assistant Professor	Agricultural Pump Survey (MERC) Gokahle Institute of Politics and Economics
2018	Dr. Sandeep Chaware	Professor	Fellow Membership of IRAJ(Institute of Research and Journals)
2018	Dr. Sandeep Chaware	Professor	Advisory Board member, International Research Journal of Multidisciplinary Science Tech. (IRJMRS)
2018	Dr. Sandeep Chaware	Professor	Reviewer , JETIR (International Journal of Emerging Technologies and Innovative Research)

2018	Dr. Sandeep Chaware	Professor	Paper Publication in ACM proceedings through International Conference on Bioinformatics Research and Applications(ICBRA 2018) held in Hong Kong, China
2018	Ms. Harmeet Kaur Khanuja	Assistant Professor	Copyright registered in Government of India for the topic Substitute finding of generic Medicine using feature based Clustering improved by hashing for Fast searching
2019	Ms. Harmeet Kaur Khanuja	Assistant Professor	Received certificate of Excellence for best paper publication during Ensemble 2019
2018	Ms. Shubhada Mone	Assistant Professor	Reviewer, National Conference in "Innovative Trends in Computer Science Engineering and Technology (ITCSET 2018)" held at Bharati Vidyapeeth COE, Pune during 2122 Sept 2018
2018	Ms. Anita Shinde	Assistant Professor	Awarded Elite grade in NPTEL Online Certification for Introduction to R Software
2018	Ms. Anita Shinde	Assistant Professor	Awarded Elite grade in NPTEL Online Certification for Introduction to Machine Learning
2018	Ms. Abhilasha Kulkarni	Assistant Professor	Successful completion of Course "Introduction to Machine Learning" , NPTEL Online Certification
2018	Ms. Shailaja B Jadhav	Assistant Professor	Successful completion of

			Course "Introduction to Machine Learning" , NPTEL Online Certification
2018	Ms. Asma Shaikh	Assistant Professor	Successful completion of Course "Big Data Computing" , NPTEL Online Certification
2018	Ms. Asma Shaikh	Assistant Professor	Reviewed the article with title "Survey: Time Series Databases and their Applications (Sensing as a Service and Big Data) " of Regular Issue for Advances in Science, Technology and Engineering Systems Journal.
2018	Dr. Vijay Bidave	Associate Professor	Awarded Elite grade in NPTEL Online Certification for Software Engineering
2018	Dr. Vijay Bidave	Associate Professor	Session chair for IEEE sponsored 4th International Conference on "Computing, Communication, Control and Automation ICCUBEA 2018" Pimpri Chinchwad College of Engineering
2018	Dr. Vijay Bidave	Associate Professor	LIC Committee Member for visit to JSPM's JSCOE, Hadapsar, Pune
2018	Ms. Preeti Joshi	Assistant Professor	Received appreciation for contributing to the software training and awareness event, Spoken Tutorials, IIT, Bombay
2018	Ms. Pranjali Kuche	Assistant Professor	Developed PPT's for Programming with C

			by Byron Gottfried Jitender Chhabraunder Tata McGraw Hill (India) Pvt. Ltd.
2018	Mr. Pratik Kamble	Assistant Professor	Patent filed on "Method system to generate summary of a set of single or token sequences from single or multiple source(s)"
2018	Ms. Pooja Dhule	Assistant Professor	Successful completion of Course "Discrete mathematics" , NPTEL Online Certification, Nov 2018(Score 63)
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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
No Data Entered/Not Applicable !!!				
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Various evaluation reforms initiated by the University that are adopted by the Institution are as follows:

- Online exams for first and second year students, InSemester exam for third and final year students, Practical, oral, TW theory exams at the end of the semester as per the University schedule and time table
- As per the requirement of the University, the Institution has deputed approved faculty at the post of College Examination Officer (CEO) for better coordination among the Institution and the varsity for various University exams
- Paperless submission of marks i.e. online submission of TW, practical/oral marks to the University
- The Institution has adopted credit based system for UG PG programmes, Online appointment of internal examiners for TW, practical/oral, Insemester exams etc. In addition to this, various evaluation reforms initiated by the Institution on its own are:
- Prelim examination for FE students
- Mock online examination
- Mock practical/oral examinations
- Unit Tests, Assignments
- Project, seminar reviews
- Institution encourages students to use reputed research papers for seminars and projects to inculcate research culture among students
- Institution encourages students for internships, sponsored projects and one student one product approach.
- Soft Skill and personality development sessions are conducted by CRD.

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

At the beginning of each academic year, the affiliating university (SPPU) provides guidelines about the academic schedule of the semester which includes

the dates of commencement and end of the semester, schedule of examinations, etc. Accordingly, the Academic Monitoring Committee, Dean Academics after taking suggestions from Principal prepares an academic planner for the institution in the beginning of a semester. After approval of the academic planner, the respective department prepares an academic calendar of the department. It includes a schedule for unit tests, term end exam, technical events, guest lectures, parents meet, cocurricular and extra cocurricular activities of the department. Academic calendar of each department is displayed on the institution website and also circulated among the faculties and students. In concurrence with the academic calendar, mock online tests are conducted for the first year and second year engineering students to practice university online examinations. Unit tests are conducted for the third and fourth year engineering students to practice for university insem theory examinations. The record of a continuous assessment 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 are added in time table (if required) to meet the academic deadlines. The institution faces some problems in following the academic calendar due to late admission of direct second year students. In such cases academic monitoring committee forms a new class or schedules extra lectures to cover the syllabus in due course of time. Periodic audits are taken to review the syllabus coverage and related academic activities. The HODs, in turn, organize departmental meetings and initiate the required steps for syllabus completion.

2.6 – Student Performance and Learning Outcomes

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

<https://www.mmcoe.edu.in/index.php/academics/learning-outcomes>

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
615624510	BE	Computer Engineering	134	131	97.76
615637210	BE	Electronics & Telecommunication Engineering	117	100	87.71
615629310	BE	Electrical Engineering	77	61	85.91
615624610	BE	Information Technology	71	66	92.95
615661210/20	BE	Mechanical Engineering	212	199	93.86
615610110	MBA	MBA	57	48	80.70
615624510	ME	Computer Engineering	9	7	77.78

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2.7 – Student Satisfaction Survey

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

https://www.mmcoe.edu.in/images/SSS_Analysis_18-19.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
View File				

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
Advances in Engine Design	Mechanical Engineering	18/12/2018
Recent Trend in Mechanical Engineering	Mechanical Engineering	10/12/2018
Wind Energy System	Electrical Engineering	06/09/2018
Entrepreneurship Awareness Camp	Electrical Engineering	21/02/2019
Electrical Safety And Management	Electrical Engineering	29/01/2019
Electrification, Electricity Rules and Acts and Safety	Electrical Engineering	06/02/2019
Increasing Wellbeing and Effectiveness at Work Places	Electrical Engineering	06/12/2018
Automation Technologies And Power Electronics Component Selection, Testing	Electrical Engineering	29/08/2018
MATLAB for Electrical Engineering	Electrical Engineering	18/06/2018
National Level Workshop on "Business Analytic: Business Intelligence by Machine Learning through R"	MBA	13/02/2019
Star Stories event by Zenith Astronomy club of MMCOE	Engineering Sciences	15/10/2018
Guest Lecture "Startups and Research Patent filing on Projects"	Electronics and Telecommunication Engineering	23/02/2019
Two days workshop on "Arduino Interfacing"	Electronics and Telecommunication	08/02/2019

	Engineering	
3 Days workshop on "Machine Learning using Python"	Electronics and Telecommunication Engineering	28/01/2019
Hands on workshop on Machine Learning	Electronics and Telecommunication Engineering	06/10/2018
Two days workshop on "Internet of Things: Towards a Smart Future 2K18"	Electronics and Telecommunication Engineering	21/09/2018
Hands on Training on PCB Design and Development of PIC based Board	Electronics and Telecommunication Engineering	28/08/2018
Dassault Certification Course in CATIA	Mechanical Engineering	15/03/2019
One Week FDP on Product Design and Development Concept to Production.	Mechanical Engineering	06/04/2019
Workshop on Vehicle Interior Design	Mechanical Engineering	10/01/2019
Workshop on Finite Element Analysis using HYPERMESH Software	Mechanical Engineering	11/10/2018
Data Science Training program followed by Microsoft Certification on 9th October,2018 to 12th October,2018	Computer Engineering	09/10/2018
One day Workshop on "AngularJS" under CSI on 22nd September,2018	Computer Engineering	22/09/2018
One Day Workshop on "Introduction to Enterprise Java and Spring Boot under CSI	Computer Engineering	25/08/2018
Two days FDP on "Data Analytics"	Computer Engineering	22/06/2018
Two days FDP on "Open MP"	Computer Engineering	11/06/2018
Intellectual Property Right and Patenting	Information Technology	20/07/2018
State Level Project Competition Paper Presentation Techno2K19 event for 2 days	Electronics and Telecommunication Engineering	29/03/2019
100 hours of Astronomy event by Zenith Astronomy club of MMCOE in association with other colleges in Pune like VIT, COEP, Cummins,	Engineering Sciences	10/01/2019

Modern, Fergusson College under the guidance of IUCAA, Pune		
Hacksprint v.1 MMHackathon 2019	MMCOE	22/03/2019
Two Days Workshop on " IoT using Raspberry pi"	Computer Engineering	01/03/2019
One day Workshop on Blender:Open Source 3 D tool	Computer Engineering	20/03/2018
Six days Faculty Development Programme (FDP) on "Cyber Security"	Computer Engineering	11/02/2019
One day workshop on "Web application Development using Python	Computer Engineering	07/02/2019
Two days workshop on "ICS" on 30 and 31st January, 2019	Computer Engineering	30/01/2019

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
E Yantra Robotics Competition 2019	Mr. Soham Bhave	IIT Bombay	29/03/2019	E Yantra Robotics competition
Best paper award	Ms. Angha Kunte	IEEE (ICECCOT2018) Conference, Mysore	14/12/2018	Paper Presentation
Project and Poster Competition	Mr. Akmal Ziyad	MITADT	14/02/2019	Project Competition
InSc HOD of the year Award 2019	Dr. S. M. Chaware	Institute of Scholars, Bangalore	13/05/2019	HOD of the Year
Most Promising Student Chapter	MMCOE	ISHRAE Pune Chapter	24/03/2019	Student Chapter ISHRAE Award
ISTE Best Student Chapter Award	MMCOE student chapter	ISTE Annual National Student Convention	30/01/2019	Student chapter ISTE Award
No file uploaded.				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start- up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
00	00	00

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

Name of the Department	Number of PhD's Awarded
Electrical Engineering	1
Information Technology	1
Mechanical 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	Computer Engineering	60	5.65
International	Electronics and Telecommunication Engineering	40	5.75
International	Information Technology	13	5.85
International	Mechanical Engineering	5	1.37
International	Electrical Engineering	2	2.53
International	Engineering Sciences	1	2.12

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
No Data Entered/Not Applicable !!!	
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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
No Data Entered/Not Applicable !!!						
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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
No Data Entered/Not Applicable !!!						
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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	9	21	17	63
Presented papers	13	2	0	0
Resource persons	1	0	0	8
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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
No Data Entered/Not Applicable !!!			
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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
Student Chapter	Best Promising Student Chapter	ISHRAE, Pune Chapter	104
Best College Competition	Best College	Savitribai Phule Pune University, Pune	2534
Student Chapter	Best ISTE Student Chapter	ISTE	2408
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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 activities	Number of students participated in such activities
Community Development and extension services	A/P Agalambetq. Haveli Dist. Pune411023	Social Awareness Program on Electrical Safety and Solve the Problems of Earthing	2	10
Blood Donation Camp	Acharya Anandrishi blood bank	Blood Donation Camp	5	159
Blood Donation Camp	Gholap blood bank	Blood Donation Camp	5	115

PUC Camp	IEI	PUC Camp	2	4
Community Development and extension services	Zilha Parishad primary school Kondivade Tq. Maval Dist. Pune	Domestic Electrification	2	9
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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
Faculty exchange (Training at B R Automation)	Ms. Mrinalini Pangaonkar Mr. Anup Dakare	BR Automation	10
Student Exchange (Internship Ural Fedaral University)	Ms. Kajal Pompatwar Mr. Aditya Phadke	Self Finance	40
Student Exchange (Internship Stevens Institute Of Technologies)	Mr. Sukrut Dani	Self Finance	45
Student Exchange (Internship SOFTHARD Automation Ltd.)	TE Electrical 36 students	SOFTHARD Automation Ltd	15
Student Exchange (Internship SOFTHARD Automation Ltd.)	TE 150 E&TC students	SOFTHARD Automation Ltd	07
Student Exchange (Internship University Of Arkansas)	Mr. Gore Sumit Namdeo	Self Finance	41
Student Exchange Teesside University, Uk	Mr. Mahajani Tejas Uday	Self Finance	13
Student Exchange (Internship Arkansas University Ua Little Rock)	Mr. Bharatiya Shubham Sanjay	Self Finance	39
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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
No Data Entered/Not Applicable !!!					

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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
No Data Entered/Not Applicable !!!			
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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
207.08	179.61

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing

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 partially)	Version	Year of automation
SLIM21 System for Library Information And Management	Fully	3.6.0.31681	2011

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	625	25	64	1	1	1	6	64	0
Added	0	0	0	0	0	0	0	0	0
Total	625	25	64	1	1	1	6	64	0

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

64 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
No Data Entered/Not Applicable !!!	

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
2.27	3.96	13.58	10.95

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)

Maintenance, Housekeeping and Writeoff Policy

- The Department which is in need of repair and maintenance work has to register a written complaint to the maintenance committee through respective HOD. The details of the maintenance work need to be mentioned.
- Maintenance Person inspects the site and completes the task.
- Once the task is completed, Head of Department signs the job Completion report.
- Bill is generated and processed through the concerned authorities and forwarded through Principal for final payment.
- All monthly maintenance bills are brought to the notice of the Principal.
- The college has Annual Maintenance Contracts for Security and housekeeping.

Policies of Academic and Support Facilities:

Utilization and Maintenance of Class Rooms:

- Classrooms are allotted as per the student strength.
- Concerned departments are given responsibility for the maintenance of their class rooms.
- Department Head, informs the maintenance committee regarding maintenance and requirement of repairs / cleanliness.

Utilization and Maintenance of Laboratories:

- Laboratories are allotted for Practical session based on a timetable.
- Standard Operational Procedures for handling various chemicals, equipments and instruments are to be strictly followed.
- Stock register is maintained and updated regularly.
- Stock verification and inspection has to be carried out by the departments at the end of the Academic Year.
- Old and outdated equipment's, chemicals and instruments are discarded by standard procedure.

Utilization and Maintenance of Computer Laboratories:

- The computer laboratories are allotted to the students as per their curriculum requirement of SPPU. Respective Heads of the department prepare the schedules for allocating the computer labs to the students as per the timetables.
- The maintenance of computer laboratories are taken care by laboratory Incharge and the system administrators take care of the repairs and maintenance of all

computers 3. All outdated and under configured computers are disposed. 4. Additional requirements, if needed are processed through Governing body as per the proposal raised by the concerned Head of Department during budget proposal.

Utilization and Maintenance of Library: 1. The book list requirement is received from the concerned department as per their curriculum changes and as per the variation of intake. 2. The students are instructed to procure an Identity card to access the library. 3. Each student is allowed to take four books for the period of 15 days. 4. Each faculty borrows 15 books for each semester. 5. If student fails to return the book in time, fine has to be paid by the student. 6. All the functions of library i.e. book borrowing and lending etc. are monitored by fully automated library software. 7. Students can utilize the library daily on all working hours from 8.30 am to 5.00 pm as per their timetable and beyond working hours any one can access up to 6.00 pm. 8. Library reading room is open 24x7 hours during and before Exam (one month). 9. Every student can access online journals and magazines through Digital library. 10. Periodically, conditions of all the library books are monitored

<http://www.mmcoe.edu.in/index.php/campus/maintenance-housekeeping-and-write-off-policy>

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	Fee waiver	5	143215
Financial Support from Other Sources			
a) National	1.IE(I) student scholarship 2. Durga Devi charitable trust 3.Late Shri Gajanan Bhimrao Scholarship 4.Shri. P. N. Honap and Shri. U. S. Anikhindi Scholarship 5.Lila Poonawalla Foundation 6.Oswal Bandhu Samaj 7.Kiran Scholarship (Persistent Systems)	16	391000
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 implementation	Number of students enrolled	Agencies involved
Spoken Tutorial conduction	15/06/2018	1576	IIT Bombay
PCB Design and Building PIC Micro	28/08/2018	137	Qualden Technologies, Pune

controller Board Workshop for TE ETC Students			
Training program on "Data Science"	09/10/2018	20	ATS Technologies Pvt. Ltd.
Add on course on Advanced data Structures using C	02/03/2019	58	ACES
International Yoga Day	22/06/2018	42	Art of Living ,In House (Mentor Geeta Pande)
Remedial Coaching	15/01/2019	260	Teaching Faculty
Soft skill development and Language lab	15/06/2018	1235	CRD and MMCOE Faculty
One day workshop on Basic of MATLAB	21/07/2018	30	Inhouse Faculty
Workshop on Automation Technology	23/08/2018	40	Inhouse Faculty
Components testing of PE components and prototype making	23/08/2018	40	Inhouse Faculty
Wind energy system workshop	06/09/2018	50	Inhouse Faculty
Session on "Solar thermal technology and market trends"	08/01/2019	42	Mr. Sahebrao Satpute
Session on "Revisiting concepts in Electromagnetics"	09/02/2019	110	Dr. S. V. Kulkarni, IIT Mumbai
Session on "Smart Grids"	08/03/2019	80	Dr. Khaparde, IIT Mumbai
Session on "Opportunities in industrial Automation"	19/03/2019	75	Mr. Anand Thakar
Workshop on "Energy storage system"	28/03/2019	60	Mr. R. P. Deshpande , IIT Powai
Personal Counselling	15/06/2018	80	MMCOE Counsellor
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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	Number of benefited students by career	Number of students who have passed in the comp. exam	Number of students placed
------	--------------------	--	--	--	---------------------------

		examination	counseling activities		
No Data Entered/Not Applicable !!!					
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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
0	0	0

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
No Data Entered/Not Applicable !!!					
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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	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	Engineering	Information Technology	The University of Texas at Dallas	M.S.
2018	3	Engineering	Computer Engineering	1. NYU Tandon School of Engineering, New York 2. Northeastern university 3. Binghamton University, New York	M.S.
2018	1	Engineering	Electronics and Telecommunication Engineering	AISSMS, Pune	MBA
2018	1	Engineering	Electronics and Telecommunication Engineering	University of Southern California	M.S.
2018	1	Engineering	Electronics and Telecommunication Engineering	Government College of Engineering, Jalgaon	ME

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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
GATE	2
CAT	1
GRE	1
TOFEL	1
Any Other	1
Any Other	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
Dexterity 2K19	National Level	2482
Ensemble 2K19	Institute Level	2482
International Yoga Day	Institute Level	68
Swayam Adhyan	Institute Level	14
Rangvarsha (Painting Competition)	Institute Level	6
Table Tennis	Intercollegiate	373
Chess	Intercollegiate	36

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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	Akashwani Sangeet Samayalan Award	National	0	1	D17IT2021	Mr. Milind M. Deshpande
2018	Bronze medal in International Poomsae Taekwondo championship in Gwanju, South Korea	International	1	0	F17CO2119	1.Mr.Aditya Patwardhan
2018	Gold Medal in 56th National Roller Skating Ch	National	1	0	D18CO2027	1.Ms.Shrutika Sarode

	ampionship at Visakha patnam					
2019	Participated in Zonal round of "CHOMERAX", A National Level Quiz Fest	National	0	1	16CO02098	1.Mr.Omkar Prabhune

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

Student council is elected every year having the representatives from every branch of the Institution. The student council strives for overall effective functioning of daytoday activities. The Institution has student representatives on academic and administrative bodies concerning their interest. The students approach the student representatives in case of queries or problems related to hostel, mess, canteen, extracurricular activities, sports etc. which, further, are reported to the faculty member by the representative. Roles of the Student Council ? To officially represent all the students in the Institute. ? To identify and help solve problems encountered by students in the Institute. ? To communicate opinion to the Institute administration on any subject that concerns students and on which the council wishes to be consulted. ? To promote and encourage the involvement of students in organizing Institute activities. Responsibilities of the Student Council ? To promote the interests of students among the Institute administration, staff and parents. ? To inform students about any subject that concerns them ? To identify and help to solve problems encountered by students in the Institute. ? To organize educational and recreational activities for students. ? To participate in developing the Institute's educational projects and to promote it to students. ? To organize an activity to recognize the efforts of students involved in organizing Institute activities. ? To maintain good relations, out of mutual respect, with the Institute staff (the Director, teaching and nonteaching personnel) and parents.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of Marathwada Mitra Mandal's College of Engineering was registered on 5/1/2012 to develop a strong bond between the alumni, institution and the students. The alumni association members are from all branches. Every year one Annual General Meeting is conducted. Also, the alumni students visit the college in every semester and carry out activities for the students like guidance in projects, guest lectures, career guidance and scholarship for deserving and needy students, etc. Scope: The association will strive to establish a bond between the institute and alumni so that alumni will participate in the activities of college and use their expertise and skills for betterment of present students. Objectives: 1. To maintain database of past students 2. To arrange Annual General Meeting every year 3. To arrange governing body meeting whenever necessary 4. To arrange felicitation of alumni conducting activities for the institute in AGM 5. To arrange technical seminars and lectures of alumni to use their expertise and skills for betterment of present students and development of the institute Outcome: The alumni association members are from all branches. Every year one Annual General

Meeting is conducted. Also, the alumni students visit the college in every semester and carry out activities for the students like guidance in projects, guest lectures, career guidance and scholarship for deserving and needy students, etc. Best outgoing student of the department is selected based on academic performance and involvement of the student in cocurricular, social and extracurricular activities. Interviews of final year students are conducted by the faculty and alumni members in all departments (Mech, ETC, Comp, IT, Electrical, MCA, MBA). Prize of Rs. 1000/ (One Thousand) each is sponsored by alumni association for Selected student for each dept since 201112 pass out batch. Alumni association has decided in Annual general meeting to sponsor Alumni association scholarship amount of Rs. 5,000/ to all departments per intake. Mechanical Engineering total Rs. 15,000 among three students as triple intake, Comp Engineering total Rs. 10,000/ between two students, ETC Engineering total Rs. 10,000/ between two students, IT Rs. 5,000/ for one student, Electrical Engineering Rs. 5,000/ for one student, MBA Rs. 5,000/ for one student

5.4.2 – No. of enrolled Alumni:

662

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

331000

5.4.4 – Meetings/activities organized by Alumni Association :

One Annual General Meeting is organized every year. Also, various activities have been carried out in the academic year 20182019, such as: 1. Mr. Akshay Deshpande was invited for Inaugural function of ACES and ISACA, held on 23/08/2018 2. Mr. Chinmay Chiplunkar conducted one day workshop on "Introduction to Enterprise Java and Spring Boot" under CSI on 28/08/2018 3. Ms. Mrunal Shende conducted guest lecture on "Data Mining Warehousing" for BE students on 19/09/2018 4. Omkar Pathak, Akash Nalawade, Chinmay Kaundanya, Bharat Mazire, Chinmay Chiplunkar, Rutwik Choughule remained associated with HackSprint v1.0 as a mentor 5. Mr.Chetan Shinde (2017 batch) conducted guest lecture for BE students on " Startup and Research Patent Project" on 27/02/2019 6. Mr.Akshay Varpe (2018 batch) conducted guest lecture for TE students on "Adavanced processor and System Programming and Operating Systems" on 23/03/2019 7. .Chetan Shinde (2017 batch) conducted guest lecture for SE students on " Industrial automation" on 28/03/2019 8. Mr. Akshay Varpe and Mr. Chetan Shinde worked as a Judge for " Techno2k19 " Project Competition Event held at ETC Department on 29/03/2019 9. Mr.Gaurav Borade (batch2010) worked as a Judge for Dexterity 2K19 event on 16/01/2019 10. Mr.Shubham Katore (batch 2016) mentor for Hackathon (Hacksprint v.1) on 24/03/2019 11. Guest lecture for SE students on PV solar technology by Mr. Himanshu Chawne on 30/03/2019 12. Session on future opportunities for Mechanical engineering students in upcoming years the field of CAD / CAM / CAE on 04/08/2018 by Mr. Mithilesh Kumar Senior Engineer Design Tech Pune. 13. Best outgoing student and Alumni Scholarship interviews

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)

Institution believes in the philosophy that only thing which is permanent in the world is change. We proactively anticipate organizational changes needed by tracking the expectations of stakeholders for growth of the Institution. Institution follows a structured approach for ensuring that changes are

smoothly and successfully implemented. Decentralization of work creates ownership amongst the stakeholders. Our board of trustees is blend of eminent industrialists, medical practitioners and academicians. This likeminded group is committed to run the Institution. Designing and implementation of quality policy is the joint effort by Management, Principal, Deans, HODs and Faculty.

Faculty and staff members are involved in various committees formed at institution level for smooth and effective functioning of all activities. IQAC cell actively contributes in quality assurance of the institution. In order to ensure academic and administrative improvement, campus coordination committee (CCC), local management committee (LMC) and Board of Governance (BOG) are formed that meet regularly to resolve issues if any. Institution actively interacts with all the stakeholders. Considering student as one of the important stakeholder, various student centric activities are conducted on regular basis. Institution has formulated different committees under Dean Student Affairs that includes Training and Placement Cell (Corporate Relations Division), Student Welfare and Discipline committee, Alumni Committee etc. Each committee works for overall development of the students. CRD cell conducts various structured training sessions with objective to train students in aptitude, soft skills and technical knowledge. Alumni association committee aims to create strong bond between alumni and institution. Alumni members are being invited by faculty members and they contribute enthusiastically through activities like guest lecture/training session/workshops/ Alumni meet/judges for various competitions etc. An Alumnus (ETC Dept) and Alumni Association have set up scholarship for needy and deserving students. It also sponsors 'Best Outgoing Student" award for BE students from each branch. For this, interviews are conducted by faculty members, HOD and alumni members.

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
Examination and Evaluation	<p>1. Examinations are conducted according to rules and regulations of Savitribai Phule Pune University (SPPU). Continuous assessment process measures students' performance in assignments, unit test, online tests, seminar and projects for outcome based education.</p> <p>2. Unit test question papers and assignments are designed as per Blooms Taxonomy. It is used as a support for Internal Marks calculation.</p>
Research and Development	<p>1. RD cell is established in the institution to inculcate the research culture by encouraging staff students to work on research ideas. 2. Centre of excellence is set up in each department in their research areas as per need of industry. 3.RD cell comprises of mainly sponsored projects, research projects by faculty members patents filed by different departments. 4.Faculty members are encouraged to acquire grant for research proposals funded by</p>

agencies like UGC, DST, AICTE, MNRE, SPPU (BCUD) etc. 5. Various FDPs, seminars, workshops and conferences are arranged by institution to imbibe the Research culture among faculty members. 6. Various policies such as student internship, one student one product, project policy are included in regular curriculum. Project policy includes the guidelines for creation of repository and incorporates patent policy of BE project. One student one product policy gives opportunity to students to enrich their knowledge in business development, product innovations and manufacturing.

Library, ICT and Physical Infrastructure / Instrumentation

1. 8852 Titles, 30440 Volume 2. Central Library is using the SLIM 21 Library Software for all day to day library transactions. 3. Licensed copy of Plagiarism Checker software is available. 4. Bar code based system is used for issue / return of books. 5. Book bank facility under social welfare activity for SC ST students. 6. Soft copy of university question papers university syllabus available in library. 7. Institutional membership of ARAI, SPPU Jaykar library. 8. Subscription of DELNET, NDL, J - gate. 9. NPTEL video lectures ICT: 1. Internet leased line connection - connectivity speed improved and upgraded to 64 MBPS (1:1) 2. Student can assess all teaching material like hand written notes, PPTs, Question Papers using Google apps 3. Google classroom helps faculties to create classes, distribute assignments, communicate to students 4. Each classroom is equipped with LCD Projector and screen Physical Infrastructure: 1. MMCI center development 2. Campus security using surveillance cameras 3. Examination section 4. Separate mess and canteen is made available. 5. Development of New laboratories as per requirement

Human Resource Management

1. The Institution has well defined HR policy. 2. The Institution regularly organizes training programs and promotes the staff to attend such programs in other organizations for overall development. 3. The Institution arranges the financial planning sessions for staff which helps them for effective planning of their finances. 4. Transparent API system is used staff

appraisal. 5 The benefits such as Provident fund, Gratuity, Group Insurance, leaves (casual/medical/maternity/paternity/study/earned) and vacations are provided to staff as per rules.

Industry Interaction / Collaboration

1. The institution has formulated an Industry Institution Interaction (III) cell which works to bridge the gap between industry and institution. 2. Every staff member tries to liaison with industry through which students are facilitated for internship/placement/project guidance /guest lectures/ industrial visit etc. There are total 40 MOUs and 150 industries connected under IIIC.

Admission of Students

1. Admissions are done through Centralized Admission Process (CAP) rounds as per the schedule given by DTE. 2. Institution takes care of students' interest to secure engineering admission. Admission counselling sessions and expert lectures are arranged to guide students and parents to resolve queries related to engineering discipline. 3. Institution participates in education fair, exhibitions and industry Expo to create awareness among stakeholders regarding organizational policies.

Curriculum Development

1. Institution is affiliated to Savitribai Phule Pune University (SPPU), Pune. Curriculum design is done by affiliating University viz. SPPU, Pune. Faculty participates in Curriculum development and implementation programs organized by University. Suggestions given by faculty members are incorporated in Curriculum time to time.

Teaching and Learning

1. The Institution ensures effectiveness of the teaching learning process by: ? Preparation of Academic planner well in advance before commencement of the semester and adherence to it ? Monitoring the quality content of teaching learning process by Academic Monitoring Committee through regular review. ? Student centric learning through extensive use of ICT ? Collecting the Students' feedback (online) twice in each semester and assessing teaching quality through the same ? Continuous assessment system monitors the

students' performance through tests, assignments, quizzes, seminars and projects. ? Promoting professional development of the faculty by providing support for FDPs, STTPs, Workshops, Conferences, industrial trainings etc. ? Library facility enables the staff to access elearning resources such as NPTEL Lectures, MIT Lectures etc.

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

E-governance area	Details
Planning and Development	1.SLIM 2Library Management Software 2.ERP Software 3.Delnet Software
Administration	1.SONIC WALL For Admin of websites 2.CCTV System 3.Bio Matrix Attendance System 4.EPABX (Internal Landline System)
Finance and Accounts	Tally
Student Admission and Support	HDFC Bank Smart Hub For Online Payment of Admission fees by students
Examination	My Examo Software for Online Exams

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
No Data Entered/Not Applicable !!!				
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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)
2018	Artificial Intelligence using Machine Learning and Deep Learning	NIL	06/06/2018	10/06/2018	2	0
2018	Augmented Reality and Mixed Reality	NIL	07/12/2018	08/12/2018	2	0

2019	FDP on Cyber Security	NIL	11/02/2019	17/02/2019	30	0
2018	FDP on "Data Analytics"	NIL	22/06/2018	23/06/2018	2	0
2018	FDP on Open MP	NIL	11/06/2018	12/06/2018	1	0
2018	One day Faculty Orientation Workshop on Internet of Things in Association with BoS (Electronics/ ETC), SPPU, Pune	One day Faculty Orientation Workshop on Internet of Things in Association with BoS (Electronics/ ETC), SPPU, Pune	12/07/2018	12/07/2018	1	2
2018	Hands on Trainig on PCB Design and development of PIC based Board	Hands on Trainig on PCB Design and development of PIC based Board	28/08/2018	29/08/2018	1	1
2018	Two days workshop on Internet of Things: Towards a Smart Future 2K18	Two days workshop on Internet of Things: Towards a Smart Future 2K18	21/09/2018	22/09/2018	3	1
2018	Hands on workshop on Machine Learning	Hands on workshop on Machine Learning	06/10/2018	06/10/2018	1	0
2018	Two days Faculty Orientation Workshop on Revised Syllabus for the subject Mobile communication	Two days Faculty Orientation Workshop on Revised Syllabus for the subject Mobile communication	13/12/2018	14/12/2018	3	1
2019	3 Days workshop on Machine	3 Days workshop on Machine	28/01/2019	31/01/2019	7	0

	Learning using Python	Learning using Python				
2019	Two days workshop on Arduino Interfacing	Two days workshop on Arduino Interfacing	08/02/2019	09/02/2019	2	1
2019	State level Project Competition Paper presentation Techno2K19	State level Project Competition Paper presentation Techno2K19	29/03/2019	30/03/2019	14	7
2019	National Level Workshop on Business Analytic: Business Intelligence by Machine Learning Through R	National Level Workshop on Business Analytic: Business Intelligence by Machine Learning Through R	13/02/2019	14/02/2019	2	0
2018	Increasing Well being effectiveness at work places (Electrical)	Increasing Well being effectiveness at work places (Electrical)	06/12/2018	06/12/2018	11	8
2018	Understanding Emotions and Emotional Intelligence (DES)	Understanding Emotions and Emotional Intelligence (DES)	22/11/2018	22/11/2018	13	2
2019	Understanding Emotions (Computer)	Understanding Emotions (Computer)	12/03/2019	12/03/2019	15	4
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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
FDP on BE (ETC/Elex.)	1	13/07/2018	13/07/2018	01

Revised Syllabus 2015 course (DIVP)				
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (EPD)	1	13/07/2018	13/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (RMT)	1	11/07/2018	11/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (VLSI DT)	1	10/07/2018	10/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (CNS)	2	09/07/2018	09/07/2018	01
FDP on VLSI Design at Deep Submicron Node, Electronics and ICT Academy, Pune	1	18/02/2019	22/02/2019	05
Syllabus Orientation workshop on Computer Laboratory IX	1	17/01/2019	17/01/2019	1
Syllabus Orientation workshop BEIT (2015 Course) Sem II	5	28/12/2018	28/12/2018	1
FDP or Completion of the course of "Database Management System"	1	14/11/2018	14/11/2018	1
FDP on "Open MP"	1	11/06/2018	12/06/2018	2
FDP on "Ubiquitous Computing using ANDROID Studio"	1	22/01/2019	23/01/2019	2
FDP on "Revised	5	14/06/2018	14/06/2018	1

BE IT (2015 Pattern) Syllabus orientation, Sem I				
FDP in Cyber Security	30	11/02/2019	17/02/2019	07
Workshop on "Learn how to structure and publish scientific contents"	1	14/02/2019	14/02/2019	01
National level Workshop on "Business analytics: Business Intelligence by Machine Learning through R"	2	13/02/2019	14/02/2019	02
Workshop on "Strategies and implementation plan of PGCON 2019"	1	04/01/2019	04/01/2019	1
FDP on "Cloud Computing"	2	02/01/2019	02/01/2019	1
FDP or Completion of the course of "Introduction to machine Learning"	3	14/11/2018	14/11/2018	01
State Level workshop on "Mathematics for Industry"	1	05/10/2018	06/10/2018	02
Workshop on "The Gesture based Robotics"	2	29/09/2018	30/09/2019	02
Participation in symposium on "Internet of Things"	1	15/09/2019	15/09/2019	01
Workshop on "Python for Scientific Computing"	1	30/08/2019	01/09/2019	03
FDP on BE Laboratory Practice	2	16/07/2019	18/07/2019	03

FDP on BE Laboratory PracticeI	2	10/07/2019	12/07/2019	03
FDP on "Data Analytics"	2	22/06/2018	23/06/2018	02
"IITB Remote Centre Workshop on Moodle Learning Management System"	1	07/02/2019	08/02/2019	02
Increasing Well being effectiveness at work places	11	06/12/2018	06/12/2018	01
FDP in Entrepreneurship	2	10/12/2018	21/12/2018	12
FDP on Moodle, by IIT Bombay	2	15/03/2019	15/03/2019	01
4 Week Course on Introduction to Smart Grid	1	18/10/2018	18/10/2018	01
8 Week course on Technical English for Engineers	1	18/10/2018	18/10/2018	01
12 Week course on Non Conventional Energy Resources	1	19/11/2018	19/11/2018	01
4 Week Course on Effective Engineering Teaching In Practice	2	05/03/2019	05/03/2019	01
1 Week FDP on Product Design Development - Concept to Product	3	06/04/2019	12/04/2019	07
1 Week workshop on NBA Accreditation	1	22/04/2019	26/04/2019	05
1 week FDP on Designing of industrial Electrical Panel Leveraging Tools (CoFaso)	1	27/05/2019	01/06/2019	06
Workshop on	7	28/01/2019	30/01/2019	03

Python Machine Learning				
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (ML)	2	21/12/2018	21/12/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (WSN)	1	21/12/2018	21/12/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (Robotics)	1	21/12/2018	22/12/2018	02
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (MC)	3	13/12/2018	14/12/2018	02
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (DIVP)	1	13/07/2018	13/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (EPD)	1	13/07/2018	13/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (RMT)	1	11/07/2018	11/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (VLSI DT)	1	10/07/2018	10/07/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (CNS)	2	09/07/2018	09/07/2018	01
FDP on VLSI Design at Deep Submicron Node, Electronics and ICT Academy,	1	18/02/2019	22/02/2019	05

Pune				
Syllabus Orientation workshop on Computer Laboratory IX	1	17/01/2019	17/01/2019	1
Syllabus Orientation workshop BEIT (2015 Course) Sem II	4	28/12/2018	28/12/2018	1
FDP or Completion of the course of "Database Management System"	1	14/11/2018	14/11/2018	1
FDP on "Open MP"	1	11/06/2018	12/06/2018	2
FDP on "Ubiquitous Computing using ANDROID Studio"	1	22/01/2019	23/01/2019	2
FDP on "Revised BE IT (2015 Pattern) Syllabus orientation, Sem I"	1	14/06/2018	14/06/2018	1
FICCI IPO awareness Programs on IPR for startups and MSME	2	04/01/2019	04/01/2019	1
Smart Manufacturing	3	07/12/2018	08/12/2018	1
Conference on future of Automotive Manufacturing Innovation, New Product Development Globalization	2	06/03/2019	06/03/2019	1
BAJA SAE INDIA 2018	1	13/07/2018	14/07/2018	2
BAJA SAE INDIA 2019	1	23/01/2019	27/01/2019	5
Syllabus Implementation of Energy Audit Management, B.E. Mechanical	1	17/06/2018	17/06/2018	1

(2015 Pattern)				
ICT Academy Bridge 2019	1	27/03/2019	27/03/2019	1
New High Performance Technology Solutions	2	07/03/2019	07/03/2019	1
TechnoCHILL 2k19	1	23/02/2019	23/02/2019	1
FDP in Entreprenurship	1	17/09/2018	29/09/2018	12
Syllabus Implementation of Energy Engineering, B.E. Mechanical (2015 Pattern)	1	11/01/2019	11/01/2019	1
Recent Trends in Solar Thermal Systems and its Scope in India	1	21/02/2019	22/02/2019	2
Conference in Reliability, Risk Maintenance Engineering Management	1	01/02/2019	02/02/2019	2
Automotive product development Best Manufacturing Practices	2	06/02/2019	10/02/2019	5
Recent Trends in Mechanical Engineering	1	10/12/2018	14/12/2018	5
Syllabus Implementation for Hydrulics and Pneumatics B.E. Mechanical (2015 Pattern)	1	12/06/2018	12/06/2018	1
Syllabus Implementation Industrial Engineering B.E. Mechanical (2015 Pattern)	1	09/01/2019	09/01/2019	1
"Synnovation 2019 - Today's Innovation Drive	1	17/03/2019	17/03/2019	1

Tomorrow's Logistics				
Entrepreneurship Awareness Program	4	05/03/2019	06/03/2019	2
Research Methodology Data Analysis	1	28/09/2018	29/09/2018	2
Developing Student Teacher Connect	1	10/08/2018	10/08/2018	1
Research Workshop on 4Cs Communication, Commerce, connectivity, culture: Implications for business Society	1	17/12/2018	17/12/2018	1
State Level Seminar on Social Media, Cyber Crimes, Cyber Security, Youth Mental Health Issues Challenges	1	29/09/2018	29/09/2018	1
Workshop on Python Machine Learning	7	28/01/2019	30/01/2019	03
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (ML)	2	21/12/2018	21/12/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (WSN)	1	21/12/2018	21/12/2018	01
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (Robotics)	1	21/12/2018	22/12/2018	02
FDP on BE (ETC/Elex.) Revised Syllabus 2015 course (MC)	3	13/12/2018	14/12/2018	02

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
83	38	40	26

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
10	08	07

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 with proper procedure and management permission. Internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure of the Institute each year. • The Accounting and Auditing Committee looks after the internal audit to verify actual expenses are not exceeded the budgeted amount and it is presented to the certified Chartered Accountant. Institution prepares budget well in advance for forthcoming financial year. It is allocated under different heads like lab equipment's, consumables, furniture and fixtures, research and development, general / miscellaneous / any other items • Institution carried out internal audit in every financial year. Internal audit for the year 201819 was done 16th 17th December 2018 by internal auditor Munde Shah Co. • An external audit is also carried out in every financial year. External audit is done by Krishna Rawas and Associates.

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
IEEE	10000	State Level Project Competition
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6.4.3 – Total corpus fund generated

00

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	No	NIL	Yes	Academic Monitoring Committee, HOD Dean Academics
Administrative	No	NIL	Yes	Principal, Deans HOD

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

1. Parent Teacher Meeting is carried out for assessment of result analysis, CO, PO and facilities support provided for students. 2. Parents and alumni visited

campus for recruitment. 3. One Day visit to study multidisciplinary project on Building Management System for students at Renishaw Metrology Systems Ltd. Hinjewadi, Pune on 03/10/2018

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

1. Meditation programme to supporting staff by counsellor 2. Organized Expert Talk on women's day 3. Annual cultural program for faculties (Unmesh 2019 and Gavaksh 2019) 4. Blood donation camp was organized on 14th Aug 2018 and 26th Feb 2019

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

1. Successfully received permanent affiliation of Savitribai Phule Pune University, Pune and applied for 2(f) and 12(B) of UGC Act 1956 2. Establishment of Marathwada Mitra Mandal Centre for Invention, Innovation and Incubation (MMCIII) with Tata Technologies and Science Technology Park worth approximately Rs. 18 Crore. 3. NBA prequalified for three programmes (Mechanical, Electrical Information Technology) and expected committee visit.

6.5.5 – Internal Quality Assurance System Details

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

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	IQAC Meeting, Term - I	22/09/2018	22/09/2018	22/09/2018	14
2019	IQAC Meeting, Term - II	27/04/2019	27/04/2019	27/04/2019	19
2019	Quality Enhancement Activity	28/03/2019	28/03/2019	28/03/2019	21
2018	ISTE Grant	17/12/2018	17/12/2018	22/12/2018	44

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
International Yoga Day Celebration	21/06/2018	21/06/2018	36	54
'Dexterity 2k19' - National	16/01/2019	16/01/2019	100	135

2018	1	1	26/07/2018	1	Kargil Vijay Diwas and Tree plantation	Importance of tree plantation	60
2018	1	1	14/07/2018	1	Tieup with Hospital	MOU is signed	2684
2018	1	1	08/07/2018	1	Palkhi Sohola and Swachata Abhiyan	Importance of Palkhi and cleanliness	110
2018	1	1	14/08/2018	1	Blood Donation Camp.	Benefits of Blood donation to society	52
2018	1	1	15/08/2018	1	Sarvesham Seva Sang	Helping hands to society	14
2018	2	2	23/08/2018	1	Grocery Donation	Helping hands to society	15
2019	2	2	18/03/2019	1	Grocery Donation	Helping hands to society	15
2018	1	1	31/08/2018	1	Guest lecture: on MPSC/UPSC exams	Exams and Responsibilities as an Indian Citizen	134
2018	1	1	01/09/2018	1	Job Fair	Job Opportunities	115
2018	1	1	18/09/2018	1	Nirmalya and Police Mitra activity during Ganesh Utsav	Pollution and Traffic Controlling	47
2018	1	1	23/09/2018	1	Nirmalya and Police Mitra activity during Ganesh Utsav	Pollution and Traffic Controlling	47
2018	1	2	16/12/2018	1	Entrance Exams	Entrance exam	201

						Centre	
2019	2	2	10/03/2019	1	Entrance Exams	Entrance exam Centre	400
2018	4	4	01/06/2018	92	Facilitation centre	Registration for Admission process	1220

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 for MMCOE Students	15/06/2018	The code of conduct for student is published on Institutional website. Weblink: https://www.mmcoe.edu.in/index.php/studentscorner/codeofconductforstudents Also it is displayed at various places in the Institute premises and communicated to students.
Handbook On Human Values And Professional Ethics	15/06/2018	The Handbook on Human Values and Professional Ethics is published on Institutional website Weblink: https://www.mmcoe.edu.in/index.php/aboutus/handbookofhumanvaluesandprofessionalethics It is also accessible to all stakeholders.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day Celebration	21/06/2018	21/06/2018	90
Tukaram maharaj Palkhi Sohala and Swachata Abhiyan	08/07/2018	08/07/2018	100
Symbiosys Karandak	17/07/2018	17/07/2018	6
Kargil Vijay Diwas and Tree Plantation	26/07/2018	26/07/2018	50
Blood Donation Camp	14/08/2018	14/08/2018	42
Visit to Sarvesham Seva Sang	15/08/2018	15/08/2018	12
Grocery Donation at Mamta Foundation and Janseva Foundation, Pune	23/08/2018	23/08/2018	12
Purushottam Karandak	28/08/2018	28/08/2018	16

Guest Lecture on MPSC/UPSC Exams	31/08/2018	31/08/2018	114
Job Fair	01/09/2018	01/09/2018	90
Torna Trek	02/09/2018	02/09/2018	90
Swayam Adhyayan	08/09/2018	08/09/2018	14
Nirmalay Event During Ganesh Chaturthi	18/09/2018	18/09/2018	41
Police Mitra activity during Ganesh Utsav	23/09/2018	23/09/2018	41
Dajikaka Gadgil Karandak	23/09/2018	23/09/2018	16
Bharat Karandak	11/11/2018	11/11/2018	16
Rajyantaya Karandak	18/11/2018	18/11/2018	3
NSS Winter Camp	07/01/2019	13/01/2019	50
'Dexterity 2k19' national Technical Event	16/01/2019	16/01/2019	235
'Ensemble 2k19' annual cultural event	17/01/2019	17/01/2019	2681
Pandurang Utsav and Swacha Bharat Abhiyan	20/02/2019	21/02/2019	15
Grocery Donation at Mamta Foundation and Sumati Balwan	18/03/2019	18/03/2019	7

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

1. PUC Camp
2. E-Waste Collection
3. Plastic Free Campus
4. Biomedical waste disposal vermicomposting system
5. Paperless communication by using ICT tools
6. Tree Plantation

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of the Practice - Professional Skills exposure to students
 2. Goal Objectives of this best practice are to enhance professional skills of student to improve their employability and organize trainings to motivate students for higher education and Entrepreneurship. So as to empower them with current Industry needs and job requirements.
 3. The Context Industry needs are frequently changing, technologies are rapidly updating. Students must be aware about these changes and update their skill sets. Though the students are good in academics few of them are lacking in presentation and technical skills. They are needed to be groomed in technical as well as presentation aspects so that they can fulfil soft skill requirements in Industry. Hence, Technical Event functional committee is formed at the Institution level, in which functional head and faculty representative from each department are actively working to achieve the objectives.
 4. The Practice Enhancing out of box thinking of students is noteworthy point of this practice. Efforts taken for the same are mentioned as follows: ? Organizing University sponsored workshops on emerging

technologies for faculty members and students ? Students enthusiastically participate/ publish their ideas in National/International Conferences and Journals. ? Expert/Guest lectures are frequently conducted for students by Industry Professionals for imparting knowledge of latest trends in Industries. ? Technical events are organized to improve professional and technical skills of students to enhance their employability. ? Faculty members and students are active members of professional bodies like ACM, CSI, ISTE, SAEINDIA, ISHRAE, ASHRAE, IET, QCFI, IAENG, ISRD, etc. ? Various student associations such as ITSA, MESA, ACES, BETA and EESA are formed. Technical and non technical events are organized under the dynamic leadership of student coordinators of each student association. ? Every department conducts add-on courses/certification courses for students to enhance their technical skills. ? Industrial visits are organized to understand professional work culture of Industries. ? Institution has been adjudged as "Best College" by Savitribai Phule Pune University in 2019. ? Dr. S M Chaware received "Best HoD of the Year 2019" from Institute of Scholars, Bangalore ? ISTE student chapter received "ISTE Best Student Chapter" award for Maharashtra Goa Section for 2018-19. ? ISHRAE student chapter received "Most Promising Student Chapter" award from ISHRAE , Pune Chapter ? ISTE and ACM student chapters has organized intercollegiate 6. Problems Encountered and Resources required ? It is difficult to find the right person from the industry who can authoritatively deliver sessions on the latest technologies. It is challenging to maintain a balance between academic activities and technical event activities. ? Some students are from vernacular background and have poor communication skills in English which needs to be improved.

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

https://www.mmcoe.edu.in/images/best_practices_18_19.pdf

7.3 – Institutional Distinctiveness

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

Vision of the Institution is , To aspire for the welfare of society through excellence in science and technology. Under the slogan of 'Welfare of Masses' , Institution consistently inspire students and provides platform for technical skill development, multidisciplinary project development, Entrepreneurship development , Ethical and Human value development. With the trust of academic and technical excellence , Institution motivates and supports students to participate in various National and International competitions like SAEINDIA BAJA, ROBOCON, SUPRA. Consistent participation and evidences of success proves distinctiveness of the Institution across the globe. Students learn ethics, team building , technical skills , presentation skills , project management and financial management, they also experience their physical strength , healthy competitiveness environment and global standards by participating in such a globally recognized competitions. Institution not only encourages students to participate but also provides financial support. Financial Support Provided by Institution: Sr. No. Event Institution Funding 1 SAEINDIA BAJA 2019, Pithampur, Indore, MP Rs. 3,28,432/ 2 SUPRA SAEINDIA 2019 Event Rs. 4,00,421/ 3 SAEINDIA Efficycle 2019 Rs. 24,225/ 4 Cultural Activities Rs. 7,00,000/ 5 Fee Waiver Scheme Rs. 4,21,244/ Total Funding Rs. 18,74,322/ Student Participation: Sr. No. Name of Event Dates 1 SAEINDIA Efficycle 2019, LPU Punjab 9/10/2018 to 13/10/2018 2 BAJA SAEINDIA 2019, Pithampur, Indore, MP 25/01/19 to 28/01/2019 3 SUPRA SAEINDIA 2019, Delhi 15/7/2018 to 20/07/2018 Achievements ? Team Abhedya of MMCOE, SAEINDIA BAJA, secured all over India 12th Rank in BAJA held at Pithampur, Indore, MP ? SUPRA SAEINDIA team of MMCOE secures 24th Rank All India (National Event)

Provide the weblink of the institution

https://www.mmcoe.edu.in/images/Institutional_Distinctiveness_18_19.pdf

8.Future Plans of Actions for Next Academic Year

1. Applied for 2(f) and 12(B) of UGC Act, 1956
2. Professional training programmes in different domains in collaboration with Tata Technologies at Marathwada Mitramandal Centre for Invention, Innovation and Incubation (MMCIII)
3. Post Graduate program and Ph.D Research Centre in Mechanical Engineering
4. Ph.D. Research Centre in Computer Engineering