



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	VPM'S MAHARSHI PARSHURAM COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr.Amitkumar T.Mane
Designation	Principal(in-charge)
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02359-243103
Mobile no.	9004690479
Registered Email	principal@vpmpcoe.org
Alternate Email	mpcoe@vpmpcoe.org
Address	A/P Velneshwar Taluka Guhagar District Ratnagiri
City/Town	Velneshwar
State/UT	Maharashtra
Pincode	415729

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Rural</b>
Financial Status	<b>Self financed</b>
Name of the IQAC co-ordinator/Director	<b>Prof.Avinash N.Pawar</b>
Phone no/Alternate Phone no.	<b>08390975232</b>
Mobile no.	<b>7775008866</b>
Registered Email	<b>iqac@vpmpmcoe.org</b>
Alternate Email	<b>avinash.pawar@vpmpmcoe.org</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.vpmpmcoe.org">https://www.vpmpmcoe.org</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.vpmpmcoe.org/academic%20calendar.html">https://www.vpmpmcoe.org/academic%20calendar.html</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B</b>	<b>2.42</b>	<b>2019</b>	<b>18-Oct-2019</b>	<b>18-Oct-2024</b>

<b>6. Date of Establishment of IQAC</b>	<b>08-Feb-2018</b>
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**7. Internal Quality Assurance System**

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>Journal Club sessions for faculties to develop</b>	<b>02-Aug-2018 15</b>	<b>40</b>

research culture.		
Industry Institute Interaction	01-Jan-2019 8	70
TATA Power Skill Development workshop	05-Mar-2019 8	90
<a href="#">View File</a>		

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

1) Feedback on Teachers by the students under the guidelines of Principal. 2) Feedback on Institute by Faculties under the guidelines of Principal. 3) Question paper based on Blooms Taxonomy for Internal Assessment Test 1 and Test 2 4) Skill development workshops with Konkan Railways TATA Power Skill Development Institute for students 5) Interaction of our faculties students with retired scientists engineers of BARC Mumbai

[View File](#)

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

Plan of Action	Achivements/Outcomes				
Initiated Parent Feedback System	Parents feedback were collected analysed during parents meeting/visits				
Initiated Student Feedback system	Students feedback are collected & analysed twice in one semester				
<a href="#">View File</a>					
<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>College Development Committee</td> <td>15-Apr-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	College Development Committee	15-Apr-2019
Name of Statutory Body	Meeting Date				
College Development Committee	15-Apr-2019				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes				
Date of Visit	17-Sep-2019				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2018				
Date of Submission	11-Dec-2018				
<b>17. Does the Institution have Management Information System ?</b>	Yes				
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	It is a system designed to systematically organise information related to the management of educational development. MIS is responsible for the promotion and use of information for policy planning and implementation, decisionmaking, and the monitoring and evaluation of an education system. As we live in the age of information, the success in organising information systems for the development of education lies in the use of information for development. Not using accurate and timely educational information for monitoring development activities results in retarded development. MIS also substantially aids efforts made to assess the performance of an education system. It also closely monitors the equitable distribution of resources, and plays an				

active role in providing information to top management about the deployment of teachers, student performance assessment, internal efficiency of the education system, resource allocation, and the distribution of didactic materials to institute. On MIS various academic and administration level works are performed. In academics Attendance monitoring, Continuous assessments of students, eresources for students, time table, extra and cocurricular activity, library, examination etc are performed. At administration side faculty and students profile, Institute fees, scholarship record, college level certificates like LC /TC,fee receipt, admission etc. The documents required for various educational works. SMS and email notification also sent by MIS to all stake holders about the institute. In students support, MIS also have a module of mentoring on which mentee observations are recorded throughout the year.

## 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

Being an affiliated institute, the institute strictly follows the curriculum prescribed by University of Mumbai (UoM). Before commencement of semester, the institute undertakes/ conducts

- Submission of Proposal about requirements of laboratory, maintenance, consumables and guest lecturers in the department budget by each Head of Department.
- Meeting of Principal and HoDs to decide semester plan.
- Preparation of the institute academic calendar considering schedules of - the monthly attendance calculation, curricular, co/extra - curricular activities, Internal Assessment examinations. Display of the same on college intranet. Online and Offline academic calendars are prepared.
- Preparation of lesson plan, practical plan and individual timetable based on teaching load.
- Video lecture / Power point presentation /Notes of each subject are prepared by individual subject teacher and uploaded on college DSpace for convenient reference by students. Links of all these digital documents is made available on Intranet in the online academic calendar.
- Preparation / Updating, if necessary, of Laboratory manual by the teachers.
- Institute academic diary is provided to the individual subject teacher.
- As part of Outcome Based Education - Preparation of COs-POs mapping and definition of expected level of learning using Bloom's taxonomy by the individual subject teacher.
- Identification of 'slow and advanced learners' (Cycle - 1) is being done by respective Heads through class teachers. During semester
- Smooth execution of Teaching-Learning along with various co/extra- curricular activities.
- Maintaining academic diary consisting of attendance, plan/execution of theory/laboratory, Internal Assessment marks.
- Identification of slow and advanced learners (Cycle - 2) is done by class

teachers after declaration of result of Internal Assessment - I in a semester and corrective measures are taken by subject teachers. • Class/laboratory assignments are communicated to the students at regular intervals. • Display of cumulative monthly attendance of students and counseling of students with less (than minimum) attendance by mentor/class teacher/HoD. • Regular Communication with parents regarding students' attendance and result through letters. Two internal assessment tests are conducted every semester on behalf of University. Subject teachers evaluate the answer-books and discuss students' performance with them and their parents at the time of Parents' meet. At the end of semester • Subject specific remedial classes are conducted for slow learners. • Students are encouraged to apply for internship /workshop/training program in industries.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Etabs Workshop		27/09/2018	3	Entrepreneurship and Employment	Extended Three Dimensional Analysis of Building Systemes
Basics of PLC It's Applications		18/02/2019	3	Entrepreneurship and Employment	PLC It's Applications
STTP on Advanced Mechatronics		05/03/2019	5	Entrepreneurship and Employment	Advanced Mechatronics
STTP on Mechanical Maintenance of Pumps valves		05/03/2019	5	Entrepreneurship and Employment	Mechanical Maintenance of Pumps valves

### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BE	Computer Engineering	09/07/2018
BE	Mechanical Engineering	09/07/2018
BE	Instrumentation Engineering	09/07/2018
BE	Electronics and Telecommunication Engineering	09/07/2018
BE	Electrical Engineering	09/07/2018
BE	Civil Engineering	09/07/2018
<a href="#">View File</a>		

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

Name of programmes adopting	Programme Specialization	Date of implementation of
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CBCS		CBCS/Elective Course System
BE	Civil Engineering	09/07/2018
BE	Electrical Engineering	09/07/2018
BE	Electronics and Telecommunication Engineering	09/07/2018
BE	Instrumentation Engineering	09/07/2018
BE	Mechanical Engineering	09/07/2018
BE	Computer Engineering	09/07/2018

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

	Certificate	Diploma Course
Number of Students	144	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
Life long Learning Extention projects	28/08/2018	70
Konkan Railway Corporation Limited(KRCL) Training program	01/01/2019	46
Latex Software	11/08/2018	33
Latex Workshop	18/08/2018	7
Introduction to Programmable Logic Controllers	01/09/2018	33
Electronics Equipment Maintenance Workshop	03/10/2018	22
Etabs Workshop	27/09/2018	49
Basics of PLC Its Applications	18/02/2019	18
STTP on Advanced Mechatronics	05/03/2019	63
STTP on Mechanical Maintenance of Pumps valves	05/03/2019	14
<a href="#">View File</a>		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	6
BE	Electrical Engineering	6
BE	Electronics and Telecommunication	1

	Engineering	
BE	Instrumentation Engineering	2
BE	Mechanical Engineering	9
<a href="#">View File</a>		

#### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
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>The institution collects the feedback on Teaching-Learning, curriculum aspects and Institute from different stakeholders such as the students, alumni, faculty and parents. I. STUDENTS Students' feedback on teaching-learning received twice in a semester through online mode. The following parameters are considered to obtain feedback. They are 1 How punctual is the teacher in your class? 2 Is the teacher able to maintain discipline in the class? 3 How knowledgeable is your teacher about the subject? 4 Is the teacher available for consultation? 5 How well does the teacher interact in the class? 6 Whether teacher uses appropriate teaching techniques? 7 How does teacher respond to students question? 8 Is teacher conducting lectures and practical's in interactive manner? 9 Is the teacher develops your confidence in subject? Students can give ratings on all above parameters. Ratings: Poor (0 to 2), Average (3 to 4), Above Average (5 to 6), Good (7 to 8), Excellent (9 to 10). Feedback analysis reports of individual faculty are generated by software itself. Head of department monitors the corrective actions taken and action taken report is prepared and submitted by faculty. Ii. ALUMNI The alumni are also giving feedback on curricula, training and development etc. The college conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni students. Whenever any alumni visits the college, feedback is taken Further, college website invites alumni to provide feedback through online. III. FACULTY The faculty of institute giving feedback on curricula and college facilities such as availability of required books in library, laboratories and amenities, freedom to adopt new techniques research, ICT facilities available in the college, Teachers Housing, Cafeteria / Tea club, Bus facility, faculty welfare scheme etc. IV. PARENTS Parents' meet is organized every semester to discuss progress of the students, in which suggestions and feedback is received from parents. This feedback mainly collected on student results, library, IT infrastructure, Hostels and Mess, Extracurricular activities, Bus facility, Sports facilities, Discipline etc. The feedback received from all these sources are analyzed discussed in the departmental/institute level meeting and appropriate actions are taken for overall development of the institute.</p>

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

##### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
BE	Civil Engineering	30	10	10
BE	Electrical Engineering	30	12	12
BE	Mechanical Engineering	60	11	11
BE	Electronics and Telecommunication Engineering	30	11	11
BE	Instrumentation Engineering	30	6	6
<a href="#">View File</a>				

## 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	529	0	52	0	0

## 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
52	52	8	25	2	10

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Mentoring is nothing but parenting of students in college campus. Many students in the Engineering college are from outside who are staying far away from their home, parents. Mentoring students is a unique, interactive and target oriented system involving student to address common student concerns ranging from anxiety, stress, fear of change and failure to home sickness and a slew of other academic worries. It is a process of creating a supporting relationship with teachers, parents and students aiming at comprehensive development of students. In this activity, mentor helps a less experienced student to bring with them a higher level of experience for values of life. Mentoring helps to shape an individual's beliefs and values in a positive way. Our Institute plans mentor groups and in each group 15-20 students are selected and one faculty is selected as a mentor for that group. That faculty is supposed to take periodic meeting with that group at least once in a week. During that meeting, faculty discusses about various issues, difficulties of his/her students. This discussion is fully casual but output oriented. Students also do express their view, some innovative ideas towards their mentor faculty. Institute looks mentor activity as a bridge which minimizes a gap between faculty and students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
529	52	1 : 10

## 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
52	52	0	3	3

### 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
<b>No Data Entered/Not Applicable !!!</b>			
No file uploaded.			

## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	346219110	VIII BE	24/05/2019	11/07/2019
BE	346229310	VIII BE	24/05/2019	05/07/2019
BE	346261210	VIII BE	24/05/2019	12/07/2019
BE	346246610	VIII BE	24/05/2019	08/07/2019
BE	346237210	VIII BE	24/05/2019	06/07/2019

[View File](#)

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

As per the vision and mission of our institute, main focus on the best process of teaching and learning. Periodic assessment of students learning is done by conducting Internal assessment twice in a semester. This internal assessment is based on subject syllabus taught in the classroom. Paper is set according to university guidelines. Students are advised for self study as well as to read different reference books in order to enhance their knowledge and understanding in each subject. Each paper of internal assessment is set strictly by mapping course outcomes and program outcomes. Blooms taxonomy is also followed in the question paper. Apart from this while performing subject practical in laboratories, students are asked logical and conceptual questions in order to keep them updated and aware about the theoretical concepts. Assignments are given periodically. Marking system of assignment is based upon students punctuality, presentation as well as capability to handle short question-answer session during assignment submission. Department level seminars are organised for projects, mini projects from which students get necessary stage during to present themselves in front of any senior panel.

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

Planning of any semester from first day to last day is done by academic calendar. Academic calendar is prepared well before the commencement of next semester and get display on college website as well as on notice board in order

to give entire picture of semester to students as well as faculties. Main events (like commencement of university exam, internal assessment, practical and oral exam etc), public holidays are mentioned in academic calendar. Along with this some special activities like cultural days celebrations timetable, movie screening on some Saturdays, parents meeting, BARC Scientists interaction etc are also properly pre-scheduled and displayed in the academic calendar.

Throughout the entire semester, utmost care is taken to run the semester strictly according to academic calendar. It is a part of institutes discipline as well as punctuality. At the end of semester, implementation of academic calendar is also taken in which review is taken about the activities run throughout the semester strictly according to academic calendar or not.

## 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)

[http://vpmpmpcoe.org/peo\\_civil.html](http://vpmpmpcoe.org/peo_civil.html)

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
346219110	BE	Civil Engineering	47	41	87.23
346229310	BE	Electrical Engineering	40	35	87.50
346261210	BE	Mechanical Engineering	65	61	93.85
346246610	BE	Instrumentation Engineering	4	3	75
346237210	BE	Electronics and Telecommunication	6	6	100

[View File](#)

## 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)

Nil

## 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
Total	0	NIL	0	0

[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
NIL	NIL	01/07/2018

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
NIL	NIL	NIL	01/07/2018	NIL
<a href="#">View File</a>				

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
NIL	NIL	NIL	NIL	NIL	01/07/2018
<a href="#">View File</a>					

**3.3 – Research Publications and Awards**

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
0	0

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	NIL	0	0
International	NIL	0	0
<a href="#">View File</a>			

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

Department	Number of Publication
0	0
<a href="#">View File</a>	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
NIL	NIL	NIL	2018	0	NIL	0
<a href="#">View File</a>						

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

Title of the	Name of	Title of journal	Year of	h-index	Number of	Institutional
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Paper	Author		publication		citations excluding self citation	affiliation as mentioned in the publication
NIL	NIL	NIL	2018	0	0	NIL
<a href="#">View File</a>						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	26	0	0
<a href="#">View File</a>				

### 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Gram sabha at Velneshwar Vaddai village	Unnat Bharat abhiyan 2.0	2	225
Gram sabha at Pimpur village	Unnat Bharat abhiyan 2.0	2	66
Gram sabha at Hedavi village	Unnat Bharat abhiyan 2.0	2	30
Gram sabha at adur village	Unnat Bharat abhiyan 2.0	2	125
English Guidance and awareness programme	GIVM Pacheri aagar School	1	31
Residential 07 Days NSS camp	NSS	2	42
Beach Cleaning	NSS	4	59
<a href="#">View File</a>			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
0	0	0	0
<a href="#">View File</a>			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Beach Cleaning	Swachh Bharat Mission	Beach Cleaning	3	59
Residential 07	NSS	Residential	3	42

Days NSS camp		Camp	
<a href="#">View File</a>			

### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Visit to B.K.L WALAWALKAR RURAL Medical College Dervan	11 faculty	Institute Sponsered	01
Interaction programme between doctors and teachers	40 Faculty	Institute Sponsered	01
<a href="#">View File</a>			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	Water treatment Plant, Nivali	17/10/2018	17/10/2018	28
Internship	Internship	Kokan Railway	01/01/2019	12/01/2019	46
Internship	Internship	COEP , Pune	17/06/2019	26/06/2019	4
Internship	Internship	Pethe Brake Motors	14/12/2018	28/12/2018	1
Internship	Internship	MAHAGENCO	20/12/2018	04/01/2019	5
<a href="#">View File</a>					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
B.K.L WALAWALKAR RURAL Medical College Dervan	30/08/2018	Exploring industrial projects for medical applications	40
Tata Power Skill Development Institute , Mumbai	26/09/2018	Industry Certification courses/ facility	100
DVP Infra projects Pvt. Ltd	11/02/2019	Skill based training Education	100

ShringarTali		and Research	
Pethe Brake Motors Pvt. Ltd, Modkaghar	08/02/2019	To promote research and developments and internship and placement to students	36
Excel Industries , Lote ,Parshuram	15/02/2019	To give valuable inputs in teaching / training methodology	8
<a href="#">View File</a>			

## 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
24.38	1.64

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
<a href="#">View File</a>	

### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Koha: Library Administrative Open Source Software	Fully	18.11.04.000	2012
Dspace: Institutional Digital Repository of Open Source Software	Fully	1.0	2013

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	9960	4127910	104	58094	10064
Reference Books	1227	913337	18	8111	1245	921448
e-Books	340	0	0	0	340	0
Journals	316	436699	32	84640	348	521339
e-Journals	83	0	0	0	83	0
Digital Database	2	1372887	0	0	2	1372887
CD & Video	781	0	0	0	781	0
Library Automation	2	0	0	0	2	0
<a href="#">View File</a>						

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
<b>No Data Entered/Not Applicable !!!</b>			
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	263	6	263	1	1	7	5	16	0
Added	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>263</b>	<b>6</b>	<b>263</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>5</b>	<b>16</b>	<b>0</b>

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

16 MBPS/ GBPS
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##### 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
<b>No Data Entered/Not Applicable !!!</b>	

#### 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



132.02

133.64

44.68

55.9

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)

**Laboratory:** - The College ensures optimum allocation and utilization of the available financial budget for maintenance and upkeep of different facilities by holding regular meetings with Principal, HODs and faculties associated with above facilities. Every year budget is assigned to each laboratory for maintenance and calibration of equipment. Record of maintenance is maintained by concerned technical assistant and lab in-charge. Different registers like Laboratory utilization, issue-borrow and lab maintenance file is maintained by concerned technical assistant and lab in-charge. **Library:** - At the start of every semester list of required books is taken from all the departments. The finalized list of required books is duly approved and signed by principal and management. The central library has fully automated software KOHA. Suggestion box is installed inside the reading room to take users feedback. The proper account of visitors (students and staff) on daily basis is maintained. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are resolved by the library staff. Apart from the central library the college also has six departmental libraries. The utilization and maintenance of departmental library is looked after by departmental library in-charge and library assistant. **Computers:** - All the departments have computer labs (07) as per their requirements. Record of utilization and maintenance of computers are maintained by the respective lab in-charge and lab assistant. **Classrooms:** - At the department level HODs submit their requirements to the Principal regarding requirement of furniture and maintenance of classrooms, which is putted in front of CDC/BOG meetings. The college development fund is utilized for maintenance and minor repair of furniture and other electrical equipments. With the help of the house kipping staff cleanliness of class rooms is maintained **Sports Complex:-** College has separate indoor sports complex with gymnasium facility. Sports committee submits their requirements to the principal accordingly purchase process has been done by stores department. Borrow issue of equipments is handled by sports in-charge.

<http://www.vpmpcoe.org/iqac%204.4.2.html>

## 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	Nil	0	0
Financial Support from Other Sources			
a) National	EBC,Minority,Scholarship, Freeship Dr. Panjabrao Dehmukh Hostel Maintanace Allowance Scheme	417	10700925.5
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
Skilling Engineers for Professional Success	21/08/2018	132	Konkan Rail Academy
Bridge Course	09/07/2018	49	VPMS Maharshi Parshuram College of Engineering, Velneshwar
Soft skill Development	31/08/2018	126	Mr. Deepak Kanitkar
Skill Developments	26/09/2018	121	Tata Power Skill Development Institute
Soft skill Development	12/10/2018	133	Dr. Sukhvinder Bedi
Guest lecture	07/02/2019	36	Dr. Anand Nayak
Soft skill Development	07/02/2019	36	Dr. Jayanti Kulkarni
Soft skill Development	07/02/2019	41	Dr. Kunal Muthe
Guest lecture	08/02/2019	30	Dr. Kunal Muthe
Guest lecture	08/02/2019	35	Scientist Dr. Sudhakar Agarkar
<a href="#">View File</a>			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	guidance for competitive examinations and career counselling	739	739	1	21
<a href="#">View File</a>					

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
Seiler Garepa India Pvt.Ltd	30	2	List is attached with excel file	19	19
<a href="#">View File</a>					

#### 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	0	Nil	Nil	Nil	Nil
No file uploaded.					

#### 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
Any Other	1
<a href="#">View File</a>	

#### 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
All Activities under Saptak -2019 are uploaded below in excel format	Institution level	2072
<a href="#">View File</a>		

### 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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Gold	National	1	0	INS18F005	Darshan Pasthe
<a href="#">View File</a>						

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

Nil
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### 5.4 – Alumni Engagement

#### 5.4.1 – Whether the institution has registered Alumni Association?

No
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#### 5.4.2 – No. of enrolled Alumni:

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

01 meeting

## 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)

Practice-1:12th Science Students Crash Course implementation. Institutes Management strongly believes in the decentralization of authority and participation of various stakeholders/committees in the decision-making process. To make more number of 12th Science students attracted towards Engineering. In the Kokan region, it was observed that very few students go to higher education. Benefits of 12th Science Students Crash Course was taken nearby 12th science college. In this crash course Expert of each subject deliver the lecture, conduct a test series on MCQ, solve the subject-related query, and provide shortcut tricks to solve difficult questions in the MHCET exam. Total Crash course delivered to free of cost. Practice 2: Achieve excellent goals after the formation of the IQAC Committee. College Development Committee and Board of Governness Committee was decided to create excellent academic planning. In line with IQAC Quality initiatives and targets Guest lectures, Augmentation lectures, Industry visits, Student association activities, parent-teacher meet, online feedback system, Bloom Taxonomy level Internal Assessment, Internship programs, research culture, etc. IQAC committee to regularly monitor class and laboratory conduction and other activities in line with the academic calendar of the the institute.

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
Human Resource Management	Faculty is encouraged to enhance their qualifications such as ME or M Tech and Ph.D. and study leaves are provided for faculty who are pursuing their Ph.D. degrees.
Research and Development	Institute encourages students and faculty members to do research projects and publish their results in well reputed journals. Journal Club form in department level to developed research culture in faculty and staff. Also institute organize technical events in every year for students. Students also participates various institute and university level technical events
Teaching and Learning	Institute has constituted Academic Planning. In addition to IQAC Committee

	to regularly monitor class and laboratory conduction. Academic Calendar is prepared at the beginning of every semester and it is strictly adhered to. D Space is implemented so that faculty can Upload study material, notes, PPTs, video links to students.
Curriculum Development	Since the institute is affiliated to University of Mumbai (UoM), we don't have flexibility for Curriculum Development on our own.
Examination and Evaluation	Internal examinations in the form of Internal Assessments are conducted Two times in an each semester. Final Theory and oral practical Exam Conducted of under guides' of university of Mumbai. Assignments, Question Bank of each Subject given by subject teacher so that students can get practice for preparing for their University examinations. Also continuous assessments are given in the form of mini-projects, seminar presentations
Library, ICT and Physical Infrastructure / Instrumentation	Library is upgraded every year with new books, periodicals, journals, e resources. D-Space is implemented in campus for academic and administrative convenience and to improve process efficiency
Industry Interaction / Collaboration	Linkages with the industries are developed in the form of Guest/expert lectures, Value-added courses and MoUs are signed with industries for student projects, internships and placements.
Admission of Students	Various promotional activities are initiated seminars are conducted for junior college and diploma college students to introduce them to latest technologies

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

E-governance area	Details
Planning and Development	Faculty members prepare and upload the teaching plans of theory and practical using higher class teaching learning modules on D-space of intra net college.
Administration	D-Space is used to upload the learning resources such as syllabus, question bank, lab manual, MCQs, study material, PPTs, notes, video link etc which are used by the students. To initiate green campus Leave management on single card is used by the faculty and staff members to apply various leaves such as

	causal, medical, on duty, study and so on who are sanctioned by the respective authority.
Finance and Accounts	S.R Software Pune Developed Account Software is used in Finance department to monitor student fee payments, late fees, payment of examination fees and also for issuance of suppliers bills, payments etc. All financial reports are generated for internal and external financial audits. Online Payment Link facility is also available in college website support by Union bank of india Palshet for students.
Student Admission and Support	LMS module of the D-space is used to upload the learning resources such as syllabus, question bank, lab manual, MCQs, study material, PPTs, notes, video link etc which are used by the students. For smooth functioning of the academics and administration, students' basic detail reports specifying program, year, academic year, division, enrollment number, name, and so College Developed In House software to support admission
Examination	Records of student Internal Assessment marks, exam related notification etc. are maintained in college website system and students can view their performance in continuous assessment, however the end-semester examinations are conducted by affiliating University

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Mr.Nikhil Gokhale Dr.Avinash M Chincholkar	ACITE Workshop on Internship Participation at Mumbai	NIL	5140
2018	Mr.Santosh Chaturbhuj	One Day Workshop on Open source Library software koha at IIT Bombay	NIL	2297
2018	Mr.Gajanan P Khapre	Workshop on Unnat Bharat Abhiyan UBA IIT Bombay	NIL	2400

2019	Mr.Prathmesh Gh anekar,Mr.Manda r Pawari and Mr.Vinayak Hiremath	Faculty Deveploement Program on Student Induction Prgoram SITCOE	NIL	2262
2019	Mr.Ganesh Dive	AICTE Workshop on Exam Reformation at COEP Pune	NIL	1228
2019	Mr.Nikhil Gokhale	AICTE Workshop on Exam Reformation COEP Pune	NIL	1205
2019	Mr.Sufiyan B Mukadam	Two Days Workshop on e Yantra Lab Setup Initiatative at Don Bosco Goa	NIL	5095
2019	Dr.Avinash M Chincholkar	CCL Inovation,c reative Models/ Machines Workshop at IIT Gandhinagar Gujarat	NIL	13570
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	NIL	Basics of PLS Its Applications	18/02/2019	20/02/2019	0	2
<a href="#">View File</a>						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Two Days Workshop on Introduction to Robotics	2	11/01/2019	12/01/2019	2
Online NPTEL Course on	1	01/01/2019	31/03/2019	8

Embedded System Design With ARM				
Microcontroller Architectures and hands on session on Embedded IIT Bombay	1	17/06/2019	21/06/2019	5
Faculty Development Program for Student Induction (FDP-SI)	2	17/06/2019	19/06/2019	3
STTP Advances in Disaster Management and Risk Reduction A Remote Sensing and GIS approach	1	24/06/2019	29/06/2019	6
One Week FDP on Machine Learning and Artificial Intelligence	2	10/06/2019	14/12/2019	5
EduCADD Course Primavera	1	30/05/2019	30/05/2019	1
Short Term Course on Hands on approach to Semiconductor devices physics education IIT Bombay	1	06/05/2019	10/05/2019	1
Scilab workshop IIT Bombay	2	04/05/2019	04/05/2019	1
Moodle Learning Management System	7	15/03/2019	15/03/2019	1
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	52	0	40

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident fund, Gratuity, Accidental Insurance Cover, Study leave, ,	Provident fund, Gratuity, Accidental Insurance Cover, Skill enhancement	Wi-Fi enabled campus, Cafeteria and clean drinking water



Women Empowerment Programs, Free medical Aid and Emergency Services, On campus employee residences, Doctor on call

leave, Women Empowerment Programs, Free medical Aid and Emergency Services, On campus employee residences, Doctor on call

facilities, Accidental Insurance Cover

#### 6.4 – Financial Management and Resource Mobilization

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

Vidya Prasarak Mandal's Maharshi Parashuram College of Engineering (VPMMPCOE) being an entity promoted by the Vidya Prasarak Mandal's had a dedicated internal audit team for the Account Section through Mr.S.V Kale (chartered accountant) This internal audit team has been functioning on an honorary basis and has been instrumental in setting up the financial controls and systems since the date of inception of the institute in the year 2012 and brought in a methodical and organized approach to evaluate and constantly improve the financial management, devise strategies for protection from fraud and theft, compliance with laws and regulations, as well as the overall financial control process. The scope of the internal audit program encompassed working of various compliance under appropriate laws and rules and regulations framed there under, sufficient systems and procedures are in place for adherence of institutional policies, physical verification of assets, consumables, stores, inventory, spare parts, and other assets, proper books of accounts, vouchers along with supporting documents are maintained, confirmation of balances from debtors, creditors and other parties are obtained periodically at the year-end and proper systems and procedures are in place for internal control at the various department levels.

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
NIL	0	NIL
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

0
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#### 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NIL	No	NIL
Administrative	No	NIL	No	NIL

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

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

To encourage support staff for skill enhancement, short-term training programs. To provide support for upgrading qualifications of support staff .To conduct programs for health awareness, blood donation etc.

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

NIL

## 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	No

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

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Implementation of Blooms Taxonomy	06/10/2018	22/10/2018	24/10/2018	529
2018	Parents meeting and feedback analysis	22/09/2018	29/09/2018	29/09/2018	93
2018	Journal Club Activity	31/08/2018	01/09/2018	31/03/2019	40

[View File](#)**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
Guest Lecture on Entrepreneurship	08/03/2019	08/03/2019	59	0
Road Safety Workshop	09/04/2019	10/04/2019	39	45

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

Percentage of power requirement of the University met by the renewable energy sources

Percentage of power requirement of the college met by the renewable energy source: 39.15 Renewable energy source: Rooftop photovoltaic solar power system

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	10
Provision for lift	Yes	100
Ramp/Rails	Yes	2
Rest Rooms	Yes	1
Scribes for examination	Yes	2

## 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	28/08/2018	02	Essay Writing and Presentation Competition Samarthya Kokanache for nearby school and high-school students	Soft skill development of students	120
2018	0	1	12/11/2018	09	Crash Course for HSC science students	Guidance to get more score in HSC and MHT-CET exam	100
2018	1	0	01/10/2018	01	Beach cleaning activity at Velneswar beach	Ocean waste cleanup after rainy season	59
2019	1	1	04/06/2019	02	Tree plantation drive in nearby villages	Tree plantation as a Green initiative	35
2019	0	1	09/02/2019	01	Guest Lecture of Dr. Anil Kakodkar to Science students of Junior colleges	Exposure to junior college science students to eminent personalities in science field	286

[View File](#)

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

Title	Date of publication	Follow up(max 100 words)
Rules of conduct, discipline and service conditions for the employees	01/07/2018	Rules of conduct, discipline and service conditions for the employees followed for the year 2018-19 as it is from the year 2013-14.

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

Activity	Duration From	Duration To	Number of participants
Universal Human Value sessions under Bridge Course for first-year engineering students	09/07/2018	31/07/2018	44
Independence Day Celebration	15/08/2018	15/08/2018	90
Voters Awareness Pledge to students and staff	25/01/2019	25/01/2019	300
Republic Day Celebration	26/01/2019	26/01/2019	70
<a href="#">View File</a>			

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

<p>1. Tree plantation and green cover: The college conducts several tree plantation drives inside the campus as well as at nearby villages to encourage students, staff and other people. Hence the college campus and surrounding area are under fabulous green cover, which is a natural habitat for many wild creatures.</p>
<p>2. Reuse of wastewater: The campus is having a Sewage Treatment Plant (STP) which helps to purify wastewater from the academic and residential area. Purified water from the STP is reutilised for maintaining green cover around the campus.</p>
<p>3. Less-paper office: The institute emphasizes the minimum use of paper for recording administrative and academic data through the use of various software developed by the faculty members. Each staff member uses the intercom facility to communicate and encouraged to use emails, WhatsApp to share documents electronically. The institute has developed various portals to provide resources for the students and faculty members like online journals, academic calendar, D-space, Guest Lecture videos, Library OPAC, Online Notice Board, NPTEL Videos, V-Lab, etc.</p>
<p>4. Plastic-free Campus: The college encourages plastic-free campus initiatives. Students and staff members are also familiarised by the minimal use of plastic when it is necessary.</p>
<p>5. Effective use of energy: The campus has a rooftop photovoltaic power station of 40KW. This energy is utilised for academic buildings. Also, the solar water heating system is fitted on top of each residential building which includes hostels, teacher housings and a rest house. LED lightings are fitted wherever possible for minimal energy consumption. Automatic street lights are preferred for reducing energy loss.</p>

6. Effective use of daylight for minimal energy consumption: Each academic, as well as a residential building, is designed for maximum use of daylight. There is no classroom, laboratory or residence where lighting is required in the daytime.

## 7.2 – Best Practices

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

Best Practice-I 1 Title of the Practice: Use of Blooms' taxonomy in question papers for better academic output. 2 Objectives of the Practice: • To expand the intellectual level of students. • To inculcate higher-order thinking skills among students. • To train students to think beyond the syllabus and apply the knowledge. 3 The Context: Examinations are conducted to assess the knowledge gain by each student. Mostly these examinations are in descriptive form and tests very basic knowledge at the level of remembering and understanding the syllabus concepts. In such scenario students are also focused only on remembering the concepts. Inculcate higher-order thinking skills among students was necessary to improve the overall quality of students and better output from students in academics. Therefore, Blooms' taxonomy is implemented across the departments to set question papers of internal assessments. 4 The Practice: The institute has initiated to set question papers of internal assessments by using Blooms' taxonomy. While setting the question papers Blooms' Learning Level (BLL) has mentioned in front of each question in the scale of 01 to 06. This scale indicates the BLL of the question. These 01 to 06 levels increase from lower-order to higher-order thinking skills which include remembering, understanding, applying, analysing, evaluating and creating. Format of questions falling under each level is provided to help each faculty members to set questions accordingly. The BLL is also helping subject teachers to set rubrics for assessing answer books of students. Faculty members are advised to set maximum questions of higher-order thinking level. However, no limit is set to ask questions of any given BLL. The freedom is given to each subject teacher to set question papers considering marks of questions, subject and time limit to solve the paper. However, for some of the mathematical subjects, BLL format of questions might not be helpful. But each paper setter can define BLL of the question and can set questions of higher-order thinking. 5 Evidence of Success: The outcome of implementing BLL for setting question papers of internal assessment may not be observed immediately. Implementation of BLL will help to trigger the students think differently. This will promote students not only to remember and understand the syllabus but to apply the knowledge they gained, analyse the things critically, evaluate thoroughly and create extraordinary engineering examples. The outcome of this can be seen in students' academic performance, projects, skills, thinking ability and overall personality. 6 Problem Encounter and Resources Required: When you implement the practice newly it may possible that the performance of students in the next few examinations will lower. This may be because students are new to this BLL and need some time to familiarize with this change. Once students acquainted with this BLL questions they will start preparing themselves for the change. And will make changes in their study tactic accordingly. Thereafter one can see improvement in students' performance and overall changes as expected.

Best Practice-II 1 Title of the Practice: Journal Club activity for faculty members. 2 Objectives of the Practice: • To develop research culture among faculty members. • To inculcate the habit of publishing research work. • Encourage educators to keep in touch with recent development in the respective field. 3 The Context: There are new fields are unlocking daily in engineering and various new inventions can be seen regularly. As an educator of engineering course, one must have knowledge of recent developments and trends in the engineering field. As we are advancing in this technological world, the role of educators in higher education is also changing day by day. Teachers should not be focusing only on

the curriculum but give a broader view of the subject to students. Faculty members must introduce students to the new research areas and encourage students to work on various engineering problems world facing. And an educator can encourage students by their own examples. Hence to develop research culture firstly among faculty members journal club activity was started. 4 The Practice: The institute has initiated the activity of Journal club for faculty members. Here, activities are conducted separately for each engineering department. Each department plans and conducts activities under this club once in a week or two. Here mostly one faculty member from the department presents and explains one journal paper of his/her interest followed by a brainstorming session. Otherwise, there can be only brainstorming sessions on a specific point of everyone's' interest. The uniqueness about the practice is freedom of choosing activities. Moreover, groups of faculty members are made based on the same but a broader area of interest hence maximum involvement can be observed.

Also, members get enough preparation time for planning the activity or presentation. Overall healthy academic competition among faculty members can be seen because of the journal club. One of the limitations of the practice is brainstorming happens only between members sharing the same subject area. Some additional interpretations can be realized if we involve faculty members of other streams in brainstorming. Another limitation comes when the area of discussion is interdisciplinary. Here views from members having only one field can be observed and other points of views may remain unexplored. We can overcome these limitations by allowing faculty members of all stream to attend the session but that will increase the crowd and lowers the quality discussion.

5 Evidence of Success: The outcome of implementing a journal club seen immediately in terms of good response to the sessions. Increase in the research work has been seen among faculty members which result in quality projects from students as well. Some of the faculty members also able to publish their work in some good journals after implementing journal club activity. Which of course accomplish the purpose of the practice. 6 Problem Encounter and Resources Required: When you implement the practice newly it might be possible to receive less interest from faculty and one needs to motivate them for the practice. However, once members become habitual for the practice, more involvement can be observed and which results in the expected outcome. For implementing this practice effectively, faculty members should have access to the various journals in their field. Hence the institute may need few offline/online journal subscriptions. Appropriate infrastructure for brainstorming sessions, presentation or other activities under this club needs to be made available. And of course, a suitable time when all members can attend the session.

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

<http://www.vpmmmpcoe.org/igac%207.2.1.html>

### 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

At MPCOE we encourage the students towards " academic merit, quality research and ethical behaviour". Because we believe that these are the important traits of an engineering graduate. Also, most of our students come from rural backgrounds and there is a need to inculcate these habits in them. That's why we included " academic merit, quality research and ethical behaviour" in our vision. The academic merit, quality research and ethical behaviour can be of different types and can be in different domains. We harness the student's about these traits at two fronts. One, by providing solutions to real-life problems, social needs and second, by expressing the thoughts through writing skill. 1. Providing the solution to the real-life problem: Problem Identified: To

inculcate the quality work in a final year project Proposed Methodology: At the college level, the committee under the guidance of retired BARC scientists and engineers has been set to identify and evaluate the final year projects. The efforts are done to provide a solution to identified real-life problems. Also, interdisciplinary projects are encouraged for providing the optimal solution and to build the team spirit. Outcome: One BE project group was participated and won the prize in Mostratrec, a science and technology contest which was held in October 2018 at Novo Hamburgo in Brazil. 2. Annual Magazine: Problem Identified: Lack of Platform for expressing thoughts and writing skill. Proposed Methodology: Magazine publication every year based on certain themes with various sections like Hindi, English, Marathi and Technical. An interview of a successful personality is also published to encourage the students. A separate section for department achievement (Staff and students), Toppers and Outgoing batch photos are also included. Outcome: Students got avenues to express their thoughts on different issues, a publication of staff and students' achievement photo gives a sense of proudness, attachment to the institute, reach to a large number of families.

Provide the weblink of the institution

<http://www.vpmpmcoe.org/igac%207.3.1.html>

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

The plan of action for the Academic Year 2019-20

- Academic audit: To enhance the quality processes in teaching and learning and student success, we are planned to carry out an academic audit. It will be a faculty driven model for collaboration, team work and self reflection of department. In an academic year two internal audits and an external audit of every department is planned.
- Administrative audit: To develop process of evaluating the efficiency and effectiveness of the administrative procedure, we are planned to carry out an administrative audit. It includes assessment of policies, strategies functions of the various administrative departments' control of the overall administrative system. In an academic year two internal audits and an external audit of every department is planned.
- Blooms' Taxonomy: It is one of the most recognized learning theories in the field of education. It is incorporated to create learning outcomes that target not only subject matter but also the depth of learning to achieve, and to then create assessments that accurately report on students' progress towards these outcomes. This will help to find advance and slow learner.
- Annual Performance Appraisal: The objective of this scheme is to motivate each member of faculty and staff to perform better and better in delivering quality education and research. The results of this assessment shall be used for: (i) Award of annual increment in the pay scale. (ii) Award of special increments and rewards in recognition of superior performance. (iii) Monitoring and recording the regular growth of each member of faculty for ready reference.
- National Institutional Ranking Framework (NIRF): To take part in ranking exercise with an aim to assess our-self we are planned to apply for NIRF. New benchmarks of quality need to be defined to help overall system to move up on the quality spectrum.
- Industry-Institute interaction: Institute has planned to focus on interaction with industry with the involvement of every faculty and students as well. Also, planned to firm up association with industry by signing MoU for formal collaboration. More focus through interaction with industry will be to motivate students for industry sponsored projects, for industrial internships.
- Entrepreneurship and Skill Development Cell: To promote entrepreneurship and innovation through skill development, institute is planned to developed "Entrepreneurship and Skill Development Cell" Skill development will be the focused area for enhancing employability of students.