SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

VPM'S MAHARSHI PARSHURAM COLLEGE OF ENGINEERING

AT POST - VELNESHWAR, HEDVI-GUHAGAR ROAD, TALUKA - GUHAGAR, DISTRICT - RATNAGIRI
415729
www.vpmmpcoe.org

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

    1. **About Vidya Prasarak Mandal, Thane**

Vidya Prasarak Mandal (VPM), Thane, established in 1935, is an Educational Trust. It runs several schools and institutes in Thane. VPM and its institutes have carved a niche for themselves in and around Thane and Mumbai. VPM caters to the needs of over 15000 students through its Marathi and English medium schools, Arts, Commerce, Science and Law Colleges, Polytechnic, Institute of Management Studies and Advanced Study Centre. The founder of VPM, Late Shri V. N. Bedekar had a dream of starting an Engineering institute in his Konkan region.

Selection of site for the educational project in Konkan

The Western coastal region of Maharashtra, known as 'Konkan', is a sandwiched hilly region between Sahyadri in the East and the Arabian sea in the West. Its people have been striving their best to exist, and to be themselves, for the last 400 years. Tourist industry has been trying to offer a helping hand to this region but that was realized to be insufficient for the Konkan to be on par with the rest of Maharashtra.

Spread over a land area of about 35 acres, VPM's Maharshi Parshuram College of Engineerig (MPCOE) campus houses all the relevant and necessary amenities and facilities that are required in a self-contained institute.

These include

- Secured entrance and boundary wall for the premises,
- well furnished guest rooms,
- 300-seater AC auditorium with projection and sound system, academic buildings having all necessary lecture halls, laboratories, seminar halls, independent and furnished rooms for every teacher,
- a cluster of 5-buildings for hostels for boys and girls,
- furnished quarters for faculty,
- Sewage Treatment Plant for recycling the water of entire campus,
- Generator for electricity backup,
- Playgrounds for Cricket, Volleyball, Kabaddi etc.
- Indoor games like Badminton, Table tennis, carom etc.
- A large gymnasium having modern equipment,
- A Utility centre offering basic daily needs of residents.

Vision

To be a leading Dynamic and Responsive centre of Excellence in Engineering and Technology on National stage, to generate, absorb, disseminate, protect and preserve knowledge by encouraging expansion of human knowledge to benefit mankind and drive regional national and global societal transformation through research integrated with education in a collegial, interdisciplinary, inclusive atmosphere of spirit of inquiry and

contribute thereby to the development of socially sensitive students and teachers, who can embrace state of the art information and communication Technology and identify a holistic and integrated view of life as a fusion of mind, body and spirit, to be creative, ethical and exemplary members of a seamless, global society.

Mission

To position Maharshi Parshuram College of Engineering (MPCOE) as learning Organization and an important member of knowledge society in seamless world, where all stakeholders of MPCOE work with, listen to, and respect each other to function synergistically with a sense of excitement, enthusiasm and enterprise towards the holistic development of students and teachers who are encouraged to be honest, ethically rich, creative and responsible citizens.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Strong support and backing of 83-year old trust (VPM) and its institutions;
- Council of Senior BARC Scientists for guidance of students and faculty;
- Nodal centre for Virtual Labs of COE, Pune;
- Remote centre for IIT Bombay to conduct workshops for teachers on KOHA, Scilab, Moodle, etc.
- Self-sustaining campus with essential amenities for students and staff;
- High quality of infrastructure and amenities in a remote and rural Engineering institute;
- Peaceful and conducive environment for true aspirants of a career in Engineering;
- Absolutely unpolluted fresh air with plenty of oxygen to make one's life fit and fine;
- Secure and safe campus with boundary wall and 120 CCTV cameras for round the clock surveillance;
- Sewage Treatment Plant for recycling of sewage;

Institutional Weakness

- Location is not favourable to attract Urban students;
- Majority of students have had their schooling in Vernacular (Marathi). They face all sorts of difficulties to adapt to English medium in college;
- Local students (who are a majority) are unable to accept challenges and work harder due to upbringing and socio-economic conditions;
- The society from which students come and the students themselves are slow in accepting technological advancement and modern way of living;
- With almost no small or medium sized Engineering industry in the vicinity of college (up to 10 km), it is extremely difficult for students to undergo in-plant training or get internships, and / or get industrial projects.

Institutional Opportunity

- Campus suitable for hosting meetings and programs of organizations of outside;
- Offer Vocational courses to further enrich the quality of society's youths and to make them self-

confident and independent;
- To frame policies for slowly and steadily improving the educational qualification of available faculty and staff;
- To attract more meritorious students of 12 th Science, Diploma and B.Sc. by offering suitable incentives;

Institutional Challenge

- To impart necessary inputs in majority of vernacular-educated students to make them understand lectures / videos / books and / or Journals in English;
- To get experienced Ph.D. or M.Tech. candidates as teachers for long term;
- To arrange placement of students in medium and upper-end companies;
- To attract meritorious students from within and outside Maharashtra;
- To inculcate entrepreneurial aptitude among students;
- To strengthen bond with alumni;
- Majority of students are unable to pay their fee in one installment. The Government's contribution comes pretty late. Therefore, a big challenge is to pay the salaries of faculty and staff in time every month.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

MPCOE is affiliated to University of Mumbai (hereafter referred to as 'University') which prescribes the syllabi for different courses offered by its institutes. The syllabi or curriculum is revised periodically by University.

MPCOE adheres to University guidelines on syllabus in each subject. However, attempts are always made to provide additional knowledge to students through sessions by members of Council of Senior Scientists (CSS) who visit MPCOE at least once in every semester. During their stay in MPCOE they take special lectures and review projects and progress of students of respective departments.

MPCOE also arranges lectures by other experts as and when feasible. We make an honest effort to arrange Bridge courses in Physics, Chemistry and Mathematics for fresh First Year Engineering students to help them settle down in Engineering environment as quickly as possible. We also allow Diploma students (who desire admission to Direct Second Year of Engineering) to attend lectures along with Regular Second year students so that, in case they get confirmed admission in this or any other college they do not suffer from the loss of teaching.

Every Engineering / technical department of MPCOE and other sections are headed by a suitable faculty as its incharge who manages the day-to-day working of it. Institute has a **Board of Governors**, a **College Development Committee**, and an **Internal Quality Assurance Cell**. These bodies have been constituted as per the norms of regulating bodies (i.e. AICTE or University of Mumbai) and have members representing the cross section of society.

Until last year these bodies used to meet at least once in a semester. From 2019 it will meet 4 times-a-year.

There are a number of other committees such as for Discipline, Anti-ragging, Grievance redressal, etc. to ensure that institute has a smooth and transparent working environment.

Academic Calendar of semester is prepared well in advance keeping the requirement of University curriculum and the scheduled activities of the departments. Any visit by Council of Senior Scientists is planned in advance and is embedded in the academic calendar. Co-curricular and extra-curricular activities of the college are also included in the calendar.

Teaching-learning and Evaluation

The admissions to First year of Engineering are controlled and monitored by the Directorate of Technical Education (DTE), Maharashtra and are strictly through Centralized Admission Process of Government of Maharashtra. As per norms, some admissions are also under Management quota. Students, by and large, are from Ratnagiri district and a small percentage of students is from adjoining districts. Few students come from outside of Maharashtra.

The management of MPCOE attempts to get the best of available and interested candidates as teachers. Each of the teaching faculty members is given an independent, furnished cabin to enable him / her to be confident about his / her capability and be loyal to his / her profession. The teaching faculty members use chalk-duster-blackboard, PowerPoint presentation, NPTEL lecture videos, personal videos, notes, and YouTube videos for the delivery of their lectures and laboratory sessions. Language of instruction is a mix of English, Marathi and Hindi to suit the level of students. Teachers, who are mainly young graduates and post-graduates, do their best to do justice to their allotted subjects and laboratory sessions. Since students take longer time to understand and digest the portion covered in class rooms and laboratories, the faculty members exert more efforts to make the students understand the subject.

Each teacher is given a desktop PC with free and unlimited access to internet with the objective of encouraging them to engage in deeper study of the concepts and also engage in research. This allows them to prepare own lecture videos, notes and refer available resources of NPTEL. This makes their lectures nteresting and easier to understand. Moreover, it helps us develop confidence in teachers and prepared academically strong faculty.

Some of our teachers have registered with NPTEL to complete online courses of interest and have successfully completed them.

Evaluation of students in any subject in a semester is through Two Internal Tests, Assignment, and Laboratory practicals (if applicable). Attempts are always made to encourage the students to study more and extract best possible result from them.

Research, Innovations and Extension

It has been a constant endeavour of the Management of VPM to encourage the teaching faculty members of MPCOE to attend FDPs, STTPs, Workshops and Conferences organized by institutes across India and Maharashtra.

The Council of Senior Scientists (CSS) visits MPCOE at least once in every semester and engages with students and faculty members of respective departments. Besides lectures on specific topics that are decided in advance, the CSS team reviews the projects of Third year and Final Year students and guides them.

In-spite of distance factor, MPCOE has MoUs with organizations in its neighbourhood. These MoUs allow students to visit the organizations and take up projects from them. Students are encouraged to either take up internships on their own or approach the Training and Placement Cell of MPCOE for assistance. Because of socio-economic conditions of a majority of students, internships of long durations outside Ratnagiri district are not affordable to them. Even then MPCOE has built up rapport with organizations like TATA Power Skill Development Institute (TPSDI) and Konkan Railway and has managed to arrange affordable and useful internships for students of Instrumentation and Civil Engineering Departments, respectively.

Two of our students were taken to Brazil to participate in 'Mostratec', a students'-level conference-cum-exhibition of projects. This kind of exposure, though expensive from the point-of-view of majority of students, is still tried here in MPCOE if students are willing.

MPCOE has a NSS unit, a division of University of Mumbai's 'Lifelong Learning and Extension', Students' Associations in departments and other platforms through which opportunities are provided to interested students to acquire certain essential traits and skills which may help them in getting a better job / career in future.

It is a very tough task to extract work from students but we continue our efforts. For the past two years College magazine "Manthan" is being published in-house. The idea is to provide a literary platform to students having orientation in this area and motivate them to contribute articles, sketches, etc. Realising the limitations of students, contributions are invited from students in Hindi and Marathi as well.

Infrastructure and Learning Resources

VPM's MPCOE is spread over 35 acres of land just across the Coastal highway and faces the Arabian sea in Velneshwar village. Three academic buildings named as Shripati, Bhaskaracharya and Ganesh Daivagna house Central Library, Administrative offices, First Year Engineering, Mechanical Engineering, Electronics and Telecommunication Engineering, Instrumentation Engineering, Civil Engineering and Electrical Engineering Departments.

Each Department houses department office, independent cabins of faculty members, laboratories, and a seminar hall. The Central library is more than adequately equipped with 11000+ curriculum books, National and International journals / e-journals, NPTEL collection, and DSpace which contains videos, lectures, etc for students' use. The library uses KOHA and OPAC software to facilitate automation and transparency in transactions.

With AICTE approving e-books, we are also procuring books under this category.

A cluster of 5 hostel blocks is well furnished to accommodate 300 students (boys and girls). Each double-seater room has attached toilet-bathroom and a balcony. Some rooms face the Arabian sea which is just across the coastal highway that passes by the front of college gate.

There are Teachers' quarters to accommodate up to 24 bachelors and 16 married members. All the quarters are

furnished and equipped with spacious rooms. Provision is made for supplying hot water to all residents throughout the year using solar-heating and electricity (during monsoon).

Campus has 2 open wells to store rain water and uses them to meet daily needs of the campus all-through the year. A central overhead water tank is designed to store and supply water for all the users of campus.

For uninterrupted power supply the institute has a Generator station of 320 KVA and a solar-based 40 KVA set up.

Solar set up

It generates about 150 - 200 units daily.

One system is of 30 KW installed on framework type structure above terrace and another system is of 10KW installed on the terrace.

Generated DC is converted into AC by three 15 KVA Fronius IG Plus inverters installed in a cabin on the first floor of Shripati building.

Generated energy is used in Shripati building. It generate about 150-200 units daily.

Student Support and Progression

MPCOE realizes that its students need extra attention and guidance. Majority of our students are not able to understand lectures in pure English and majority of the students do not understand most of the subjects (particularly those involving Mathematics) in stipulated one lecture-hour.

In that background, bridge courses in Physics, Chemistry and Mathematics are conducted in the 10 – 15 days before the commencement of University semester for students who are interested to revise the fundamentals. The duration (in hours) prescribed by the University syllabus, more often than not, proves inadequate to cover the content within the stipulated time. Therefore,teachers take extra lectures on Saturdays for the needy students. Otherwise, Saturdays and Sundays are no-lecture days for the rest, so that they can revise week's portion and remain updated.

The President and Secretary of Students' Council are members of 'College Development Committee' (CDC) which now meets 4 times in a year. These students are encouraged to speak during CDC meetings.

Students are part of department's students' association, and are guided by VPM's Council of Senior Scientists, besides the teachers, Head and Principal.

The Training and Placement cell (T & P cell) of MPCOE is quite active and keeps exploring different avenues for the eligible students of college to provide platforms for Internship, Campus Pool and Placement. Due to its constant endeavour the students of college have undergone internships in Konkan Railway in Madgaon and Jammu, and by Tata Power Skill Development Institute, Mumbai.

T & P Cell also invites speakers for training students on soft skills and for preparing them to face interviews and Group Discussion. If convenient, eligible students are sent to take part in Campus Pools organized by other

colleges.

T & P Cell of MPCOE maintains close contact with the Unified Placement Cell of Vidya Prasarak Mandal Thane and shares available placement opportunities and other information with MPCOE students.

Governance, Leadership and Management

Vidya Prasarak Mandal (VPM) Thane is now 83-year old and has a number of schools and institutes under its umbrella in Thane campus. Dr. Vijay Bedekar, the working President of VPM, believes in discipline, punctuality, planning, research and an atmosphere where Indian culture is made known and promoted among students, faculty and staff and other stakeholders. He visits the institute every semester at least once and holds meetings with Principal and Heads and appeals to them to raise the bar. Through emails, whatsapp and mobile conversations he also keeps in regular touch with the Principal, Heads and Faculty to remain updated, and also shares his experiences with all of them. As he travels quite often to other countries he shares the learning with all concerned to motivate them for better performance.

Principal of MPCOE runs the institute as per the policies and guidelines of VPM. He works in tandem with the Heads of various departments and section in-charges for the day-to-day administration of academics and non-academic activities. To get first hand inputs about quality of students, their progress during the semester, and to get their views about teaching and other matters of the department, the Principal personally engages one or two subjects in a semester depending on the circumstances. This also inspires other faculty and staff to perform to the best of their abilities.

This also allows the Principal to get first hand information / feedback about students' quality, whether they are understanding other subjects or not, what do they think about other teachers and subjects, etc.

Principal is assisted by several committees such as for Discipline, Attendance, Library, Maintenance, etc for smooth functioning. Besides there are Board of Governors, College Development Committee, IQAC, Online Grievance Redressal, and many other committees as per AICTE / University requirement and these are active forums.

Management of VPM (MPCOE) believes in punctuality, discipline, and regular communication among institute and parents of students. In every semester a meeting with Parents is arranged to directly communicate the performance of their wards. Parents appreciate these effors of institute.

Institutional Values and Best Practices

The values, customs and best practices of VPM are implemented in MPCOE. Location of college also has its influence. Majority of students, faculty and staff are from Ratnagiri and nearby districts. Some teachers are from neighboring Karnataka and Andhra Pradesh. That helps in creating a cosmopolitan environment in the campus. Students, by and large, are peace loving and are always receptive to instructions and guidance provided by Dr. Bedekar, Principal, Heads, Faculty and Staff.

It is mainly due to this atmosphere that incidents of ragging or protests etc. by students are rare in this college. The management of MPCOE maintains secular credentials by allowing limited holidays during the semester.

Through programmes and schemes of Government like PMKVY, Unnat Bharat Abhiyan, and NSS, the faculty and students of MPCOE engage with the residents of nearby villages and provide them support as and when feasible. Students of MPCOE take part in cleaning of Velneshwar beach at periodic intervals, either on the invitation from Sarpanch of village or as a part of college activity.

VPM has also undertaken a preliminary study, through its institute of Thane, to identify the flora and fauna of the region within the proximity of Velneshwar.

'Museum on Wheels' has come to college twice during the last 3 years and has helped school children of nearby villages become interested in, and knowledgeable about, the themes of the museum.

The Council of Senior Scientists of VPM interacts with the students of Jr. Colleges and High Schools of Chiplun, Guhagar taluka, and neighboring villages through lectures, demonstration of simple experiments for awareness.

Visits of students from neighboring Jr. Colleges and Diploma institutes are also arranged to create interest in them about Science and Higher Education by showing them the Virtual Labs, and laboratories of college.

In the past, MPCOE has conducted special sessions for the teachers and librarians of schools and colleges in its proximity on topics like Computer Literacy and Library Automation through KOHA.

The faculty members of MPCOE have also been invited by Jr. Colleges and Schools for conducting experiments, for motivational lectures and for lectures on English language.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	VPM'S MAHARSHI PARSHURAM COLLEGE OF ENGINEERING
Address	At Post - Velneshwar, Hedvi-Guhagar Road, Taluka - Guhagar, District - Ratnagiri
City	Velneshwar
State	Maharashtra
Pin	415729
Website	www.vpmmpcoe.org

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	Avinash M. Chincholkar	02359-243103	9004690479	02359-243102	principal@vpmmpcoe.org
IQAC / CIQA coordinator	Nikhil Gokhale	-	9145177599	-	NAACCOORDINATOR@vpmmpcoe.org

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	

Date of establishment of the college	06-08-2012

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Maharashtra	University of Mumbai	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	29-04-2018	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	At Post - Velneshwar, Hedvi-Guhagar Road, Taluka - Guhagar, District - Ratnagiri	Rural	35	19817

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BE,Civil Engineering	48	HSC	English	30	8
UG	BE,Electrical Engineering	48	HSC	English	30	10
UG	BE,Electronics And Telecommunication Engineering	48	HSC	English	30	10
UG	BE,Instrumentation Engineering	48	HSC	English	30	4
UG	BE,Mechanical Engineering	48	HSC	English	60	10
UG	BE,Computer Engineering	48	HSC	English	30	0

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				1				0				0
Recruited	1	0	0	1	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				51
Recruited	0	0	0	0	0	0	0	0	41	10	0	51
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				21
Recruited	20	1	0	21
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				19
Recruited	18	1	0	19
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	1	1	0	3
M.Phil.	0	0	0	0	0	0	1	0	0	1
PG	0	0	0	0	0	0	26	3	0	29

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	9	2	0	11

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	15	0	0	15

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	441	3	0	0	444
	Female	84	1	0	0	85
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	23	22	29	28
	Female	8	11	8	7
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	230	223	199	151
	Female	36	33	28	22
	Others	0	0	0	0
General	Male	242	279	286	208
	Female	43	38	38	26
	Others	0	0	0	0
Others	Male	50	59	54	44
	Female	10	9	7	6
	Others	0	0	0	0
Total		642	674	649	492

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3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 250

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	6	6	6

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
642	674	649	492	328

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
150	150	180	180	180

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
183	227	153	1	1

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File Description	Document
Institutional Data in Prescribed Format	[View Document](#)

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
62	73	59	60	40

File Description	Document
Institutional Data in Prescribed Format	[View Document](#)

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
88	92	92	68	44

File Description	Document
Institutional Data in Prescribed Format	[View Document](#)

3.4 Institution

Total number of classrooms and seminar halls

Response: 31

Number of computers

Response: 185

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
160.35	201.96	323.66	463.14	450.27

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

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.

- Council of Senior Scientists (CSS) come to MPCOE once in a semester.
- CO's attainment for all subjects is calculated after the declaration of results Internal Assessment tests.
- In some specific cases, Industry personnel are invited for expert lectures to bridge the gap between industry's desirables and academic teachings. Also students are encouraged to visit industries.
- Students are encouraged for industrial projects.
- Online feedback from students is taken twice in a semester about Teachers' and teaching- learning process using 10 parameter and teachers are informed by concerned HoD about their performance.
- Use of conventional, student-centric, ICT based and /or innovative techniques is made by teachers for effective delivery of curriculum.
- Parents' meet is organized every semester to discuss progress of the students and to welcome suggestions for improvement.
- Students participate in sports and cultural activities.

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.

File Description	Document
Link for Additional Information	[View Document]

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 0

1.1.2.1 **Number of certificate/diploma programs introduced year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the certificate/Diploma programs	[View Document]
Any additional information	[View Document]

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 0

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic

Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	0	00	0

File Description	Document
Details of participation of teachers in various bodies	[View Document](#)
Any additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 99.6

1.2.1.1 How many new courses are introduced within the last five years

Response: 249

File Description	Document
Details of the new courses introduced	[View Document](#)
Any additional information	[View Document](#)

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)
Any additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 1.11

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	36	00	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	[View Document](#)
Any additional information	[View Document](#)

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

All departments in the institute have courses in their curriculum which integrate cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics. Various programmes are arranged by the institute which contribute to sensitize students to these cross-cutting issues.

Gender equality:

Being a co-education institute, the college maintains gender equity in academic and non academic activities. Institute encourages boys and girls to participate in sports and cultural activities. Common rooms for girls and boys are available in the institute. Grievance Redressal committee has been established for addressing the grievances from girls and boys. Common rules like dress code, punctuality, discipline have been implemented for all students and faculty in the institute and hostels. Institute does not discriminate between girls and boys.

Environment and Sustainability:

- As a green environment initiative, and considering depleting energy sources, and opting for pollution free environment our institute has installed two solar power plants of capacity 30 kW-hour and 10 kW-hour respectively.
- Tree plantation of nearly1200 trees has been completed.
- College has been conducting various social events such as tree plantation, rallies in nearby villages on the topics like energy conservation, water conservation etc.

○ College has a NSS cell which conducts various environment related activities such as Beach Cleaning drive, village cleaning during NSS camp etc.
○ College has organized various programs/seminars/guest lectures on environmental issues.
○ The institute has setup Sewage Treatment Plant (STP) and Water heater based on solar power for the hostels and for buildings of Housing Colony.

Following courses related to environment and sustainability are offered -

Name of Course	Branch/Semester	Contents
Environmental Studies	First Year/I	Ecosystem, sustainable development, pollution, related case studies, pollution control legislation, renewable energy sources, green building concept, carbon credits and disaster management
Engineering Geology	Civil/III	Geological formations, classifications and morphology of rocks, physical properties of minerals. It also gives the ideas about geological formations in causing earthquake and landslides.
Geotechnical Engg.– I	Civil/V	Rock, Soil - origin and formation, Soil mechanics, Rock mechanics, Soil engineering, Geotechnical engineering
Environmental Engg – I	Civil/VI	Planning, design construction of water systems related infrastructural facilities. Practical solutions to environmental problems in our society.
Environmental Engg – I I	Civil/VII	Design of waste water collection and treatment systems; and develop rational approaches towards sustainable waste management via appropriate treatment and reuse.
Renewable Energy Sources	Mechanical/VIII	Aspects of renewable energy from sources such as – solar, wind, geothermal, biomass, ocean, economics, conservation and energy audit

Students are encouraged to develop innovative products, as a result of which they participate in various International competitions as mentioned in the following table –

Year	Project Title	Team	Competition
2016-17	Design and Fabrication of Agriculture Weeder	Team of S.E. Mechanical and T.E. Civil Engineering students	MOSTRATEK – 2017 at Brazil

Professional Ethics:Human Values:

A necessary part of curriculum is to inculcate good Human values among students. Our institute always believes to make each student to be a good human being and good engineer.

- College has arranged Blood donation camps.
- College has NSS cell which conducts various programs for villagers, primary school students.
- College has Anti Ragging Cell.
- Grievance Redressal committee and discipline committee.
- College campus is handicapped-friendly.
- Lift is also made available to the needy students.
- Unnat Bharat Abhiyan (UBA) addressing various problems in nearby villages
- Training program under Pradhan Mantri Kaushal Vikas Yojana (PMKVY)
- Aakash Tab training for primary school students and teachers.

To instill ethical attitude/values at workplace and life and to attain a culture of play hard and play fair, a compulsory course in *Business Communication and Ethics* is offered for the third year students of all branches. Along with it, programs on ethical hacking are organized by –Computer department.

- College has organized various personality development programs.
- Industrial visits and internships are made compulsory
- Experts from corporate are invited to share their views with students to understand corporate standards and culture.

Integration of these programs/courses into curriculum helps development of engineering professionals, with sensitivity towards these issues.

File Description	Document
Link for Additional Information	[View Document](#)

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 3

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 3

File Description	Document
Details of the value-added courses imparting transferable and life skills	
Any additional information	

1.3.3 Percentage of students undertaking field projects / internships

Response: 4.05

1.3.3.1 Number of students undertaking field projects or internships

Response: 26

File Description	Document
Institutional data in prescribed format	
Any additional information	

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document	
URL for stakeholder feedback report		

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.2

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	2	2	2	0

File Description	Document
List of students (other states and countries)	[View Document]
Institutional data in prescribed format	[View Document]

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 34.95

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
145	142	134	151	131

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
360	372	432	432	432

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

2.1.3 Average percentage of seats filled against seats reserved for various categories as per

applicable reservation policy during the last five years

Response: 37.27

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
64	63	52	76	55

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Admissions to First year of Engineering and to the Direct Second of Engineering are as per Government norms and specified eligibility criteria. However, realising that students joining Engineering come from different academic background and different vernacular media, MPCOE conducts Orientation sessions as per AICTE guidelines, and 'Bridge' courses (to revise fundamentals of Physics, Chemistry, and Mathematics).

Noticing that average First year student experiences difficuly in understanding subjects such as Mathematics, Engineering Mechanics, Engineering Drawing, Structured Programming Approach, and some other subjects of first and second semesters, extra classes (and remedial classes for backlog students) are conducted by respective teachers on Saturdays. Separate time-table is displayed for these special lectures.

A methodology has been made to identify the learning level of individual student by considering their academic performance during 3 semester current and preceding two semester.

Identification of Slow Learner and Advance Lerner is done by respective HoD through Class Advisor **twice in semester:**

Cycle 1: At the beginning of every semester:

Class teacher(s) with the help of concerned faculty members identify slow & advanced learners based on an index which is calculated using the details mentioned here –

Criteria	Description	Weightage in Final Index	Outcome
SGPI of (current semester-2)	Average marks of all the subjects of Internal assessment I and Internal assessment II during **current semester-1**	70%	List of students as slow learner and advanced learner in all subjects during current semester till second cycle identification
Internal assessment Marks of (current semester -1)		30%	

Final index is calculated as follows-Note: For FE and DSE students, 12th class and diploma final year percentage are considered respectively.

Index= (0.7 x SGPI of current semester -2) + (0.3 x Average Internal assessment(IA) marks of all subjects of current semester-1 on a scale of 10)

Based on this Index slow and advanced learners are identified-

1.Slow learners - If Index is less than 4 (students who didn't pass even in any one subject)

2.Advanced learners - If Index is more than Avg. index of class + 2

Example: If average index of class is 6, then all students with index above 8 [Avg. index of class + 2=8] will be identified as advanced learners.)

In view to improve performance of slow learners following measures are taken in all subjects –**Cycle 2: After results of IA – I of current semester:**

Criteria	Discription	Weightage in Final Index	Outcome
SGPI of (current semester-1)	Subject-wise marks obtained in IA-1 of current semester	70%	Considered as slow /advanced learner specific to a subject during current semester
IA-1 Marks of (current semester)		30%	

Following measures are taken-

Measures for slow learners	Measures for advanced learners
1. Remedial classes (minimum 2 assignments)	1. Motivating the advanced learners to become member of professional society and get involved in some professional activities and competitions at national / international level.
2.Extra Classes	2. Extra Classes

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.2.2 Student - Full time teacher ratio

Response: 10.19

File Description	Document
Any additional information	[View Document](#)

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.16

2.2.3.1 Number of differently abled students on rolls

Response: 1

File Description	Document
List of students(differently abled)	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Industrial Visits: - Students of each department have visited reputed industries in the last 5 years (including current academic year 2018-19) like ISRO, Kamuthi Solar Power Plant, Chinab river bridge at Jammu by Konkan railway corporation Ltd., Jayakwadi Dam, Koyana Dam, JSW Thermal Power plant Jaigad, HVDC substation Padghe, BARC Mumbai, Tarapur Atomic Power Station, ACGL, ACE automation, L&T, All India Radio Ratnagiri etc.

Well Equipped Laboratories: - Subject-wise experiments, as per University curriculum, are conducted in laboratories. Curriculum prescribes certain number of (minimum) experiments to be performed but the departments have arranged for a few more wherever possible.

Additional Workshops: - Workshops have been organized and conducted in certain laboratories for strengthening the theoretical concepts. Software and hardware based additional Workshops have also been conducted.

Mini projects: - Mini projects are given to students in one semester as a preparatory /preliminary step for their final year project. Performing this activity helps students to become familiar with project selection, its actual scope, design and fabrication etc.

Alumni meeting: - First Alumni meeting was convened on **2 March 2019 and its office bearers were selected**. The idea is to bring together, at regular intervals, the graduated students of MPCOE and make them recall their college and hostel life, and share their growth stories with each other.

Motivation for participating in Project competitions, technical events: - Students are encouraged to participate in the events like **Smart India Hackathon**, **Aavishkar, REX**, and **GOKART** etc.

NPTEL Local Chapter: - NPTEL local chapter has been established in the institute in academic year 2018-19. Students are encouraged to participate in its activities.

Membership of Technical bodies: - Institute's many teachers as well as students are registered as members of various technical bodies like ISTE, ISME, IE (India) etc.

Internships: - Awarenes about importance of **internship is given to students every year through respective Heads and by Principal in his messages. Students have been opting for internships either** in industries or institutes.

MoU for students' skill development: - A number of MoUs have been executed and their benefits will be visible in the years to come.

Council of Scientists : - Senior retired Scientists from **Bhabha Automic Research Center (BARC)** visit MPCOE at least once in a semester to interact with students as well as teachers and guide them about more promising projects.

Active Training and Placement Cell : - T & P Cell arranges sessions for students to prepare them to face interviews, group discussions, and to be a team worker. Guest lecturers on **presentation and soft skills, negotiation techniques** etc. have also been arranged.

Industrial Projects: - Students have taken projects given by industries like Finolex, Pethe Brakes, and others.

Study Material on Dspace : - Lecture videos and notes are available to students on intranet on Dspace. It is avaialbel only within the campus.

File Description	Document
Link for Additional Information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 82.26

2.3.2.1 Number of teachers using ICT	
Response: 51	
File Description	**Document**
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues	
Response: 12.35	
2.3.3.1 Number of mentors	
Response: 52	
File Description	**Document**
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Group Assignments: - Class assignments are given in a group of students to reduce repetition.

Innovative technical task is also provided to students which they can perform as a group work or group assignment from which they get something better view and conceptual learning than simply book reading and classroom teaching.

Dspace & Academic calendar: - Dspace is one unique platform for students to access modern teaching-learning processes being adopted in the institute. Faculty members make their videos, notes and presentations for respective subject and upload it on D-space. D-space is available in campus, from which students can get data for any academic subject. Data on D-space is linked with academic calendar.

Expert lectures / Seminars: - To improve students' learning experience institute organizes guest lectures by Expert industrialists, BARC senior scientists, and senior professors from different institutes which helps students to get additional knowledge about recent trends. Students keep themselves upgraded with latest technology.

Industrial Projects: - Institute motivates students to do industrial projects as their final year project. This activity helps the students to become familiar with real time ground level industrial problems. Students can identify and study those problems by visiting industry & they start working on those problems to achieve desired solution by minimizing the severity of those problems. This is the actual task of their 'Final year (B.E.) Project' which is termed as an '**Industrial Project**' activity.

Workshops / skill development programs: - T&P cell organizes industrial training programs like TPSDI (Tata Power Skill Development Institute) for students during their vacation period from which they can achieve practical knowledge which in turn helps to fit and brush up their theoretical concepts.

Teaching learning is further enhanced to bring creativity by organizing hands on workshops, industrial visits, expert lectures/seminars, group discussions, industrial projects etc. Students are motivated for participation in project competitions such as smart India Hackathon, REX, Avishkar from which students get platform to represent themselves with their innovative ideas of projects as well as they can also get idea about various projects running in another institutes.

Presentation & Soft skills development: - T&P Cell organizes group discussion sessions to improve team building. Also T&P Cell calls guest lecturers to conduct sessions to guide the students regarding **interview, presentation and soft skills, negotiation techniques** etc. These lectures are conducted at least twice in a year. Some senior HR persons like Dr. Joshi & Dr. Bedi from VPM Thane guide students.

Additional Workshops: - Workshops on Matlab / Simulink, Proteus, and Aurdiano and on hardware oriented topics like PCB designing, quadcopter, mechanical maintenance of valves & pumps, Non-destructive testing training etc. have been conducted. Resource persons for such workshops are institute faculty members and external industrialists.

MoU with Tata Power Skill Development Institute (TPSDI) Mumbai: - Institute hosted 'Principals' Meet' on 26 September 2018 in association with **Tata Power Skill Development Institute (TPSDI), Mumbai**, to create awareness about its skill development program. It was for students of Mechanical, Electrical & Instrumentation Engineering.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 79.28

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)
List of the faculty members authenticated by the Head of HEI	[View Document](#)
Any additional information	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 3.56

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	2	2	2

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	[View Document](#)
Any additional information	[View Document](#)

2.4.3 Teaching experience per full time teacher in number of years

Response: 4.31

2.4.3.1 Total experience of full-time teachers

Response: 267

File Description	Document
Any additional information	[View Document](#)

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	0	00	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 10.08

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
11	13	13	5	1

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The institute is affiliated to University of Mumbai (UoM) and follows CBCGS from AY 2016-17 as compared to previous CBGS.

CIE at the institute level has progressively evolved to the present state where every course is taught as modules. The detailed lesson plan is developed according to syllabus. During a semester evaluation is carried out through two Internal Assessment (IA) tests.

For the first IA 40% of the syllabus is taken as the portion and is conducted for 20 marks. Keeping in mind the quality of students, assignments and practice sessions are held by teachers depending on the difficulty level of subject. Even though minimum passing marks are only 40% in each internal test, the institute

encourages students to score at least 50% in each test. Those who gtt less than 50% marks are asked to to solve the full question paper of test and submit as assignment. It is hoped that by doing this students would at least develop writing habit.

At this stage institute also collects feedback from students about teachers through online system. The collected feedback is compiled, analysed and then shared with each teacher for improvement..

In the Parents' meet that usually follows the first IA, every department arranges to report the performance and progress of student to his / her parents. Even though the turnout of parents in these Parents' meet is much less than expected and desired, the institute continues to arrange them.

The Continuous Internal Evaluation carries forward with the remaining 60% of syllabus which is covered before the end of semester. Second Internal Assessment Test is conducted towards the end of semester in the same manner as the first test and the whole process is repeated.

For average students special classes are arranged after the second internal test in order to boost their performance in the End-semester examination of University.

The attendance of students is monitored continuously every month during the semester and a list of students having attendance below the prescribed 75% limit is displayed. These students and Parents are informed about the status and are urged to improve attendance in the remaining days of semester.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

IA Head	Frequency	Details
1. Internal Assessment	Twice per Semester	IA 1: This test based on & after completion of 40-50% syllabus complete syllabus
		IA2: Excluding Syllabus of IA 1 & after completion of 80% syllabus of complete syllabus
2. Term work		

I. Lab Experiment	weekly	2 hours per batch
II.Assignments	Regularly	Completion of one or two module
III. Mini Projects	VI semester	In group 3-4 members
3.Major Project	Final Year (VII & VIII Sem)	In group 3-4 members

Each department prepares schedule of internal assessment (IA) exams in line with the institute Academic Calendar and a notice for students is displayed one week before the actual IAs.A circular is issued to all faculty members to demand expected number of question papers of respective subjects in prescribed format, ten days before commencement of IA tests**.** Also we send one notice for getting information about specific requirements of subjects during internal tests.COs are followed while setting the question papers and are communicated to the students through question papers. We also communicate regarding expected level of learning based upon Bloom's taxonomy.

The time table and seating arrangement duly signed by Internal Assessment Committee (IAC) is displayed on notice board before Internal Assessment exams. A squad of HODs is constituted to monitor discipline during IAs. Respective faculty members assess the answer books of respective subjects within *one week*. Evaluated answer-books are shown to the students and their grievances are resolved immediately by the subject teachers. Subject teachers provide feedback to each individual student about how he/she can improve next time. Then, the marks are displayed in the notice board and also the parents are informed.

Term work consists of – experiments, assignments, mini projects & attendance. The assignments are given to the students subject-wise as per the university syllabus. Evaluation of the experiments and the assignments is done as per the university norms by adding an additional level to assess the technical understanding, neatness and punctuality. The results of the evaluation are immediately made available to the students and are discussed with them.

Mini projects are given to develop the technical knowledge, skills and technical understanding of the students. Mini projects are started in the Vth Semester.

Major projects are given to final year students, one semester in advance and the students have to select a recent and innovative topic. These Project titles are decided after discussion with student project group, supervisor & co- supervisor in the presence of seminar coordinator, department faculty and respective department's final year students. Evaluation of project is done twice by Senior Scientist council members (Ex BARC Scientists). Evaluation is done by a team of internal and/or external teachers by considering attributes such as - quality, clarity, feasibility & application of project, clarity of objective and scope, review seminar presentations and submission of report.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

The institute has a separate Examination Control Office. Principal as the Chief Conductor of all the examinations is the chief grievance redressal officer. To assist the Principal, a senior faculty is appointed as Examination Cell Incharge; and two clerks and a peon are appointed full time for the routine work of the Examination Control Office. All the grievances related to end semester exams, internal tests, practical and oral exams are handled by Examination Control Office in transparent, time-bound and efficient manner as per the norms laid down by University of Mumbai.

Practical/Oral Examinations: University approved pair of internal and external examiner conduct the Practical, oral, and practical including oral examinations at the end of every semester. Internal and External examiner evaluate student's performance independently and finally the average marks are awarded to student. Moreover, oral feedback about each student's performance is provided for future progress of the student.

Term-work: Each subject teacher follows distribution of term-work marks provided by university for the respective subject. Individual student's grievances are solved by the respective subject teacher immediately at the time of evaluation of assignments, project work, field work etc.

End Semester Examination: As per the university guidelines the following steps are implemented:

1. Before the start of end semester examination, instructions for candidates appearing for examinations are displayed in notice board. These instructions are also printed on the candidate's answer-book.
2. At the time of examination, if a student is found in suspected malpractice case, then an Enquiry Committee is formed and the student is called for hearing in front of the committee and then systematic procedure as per the university norms is followed to resolve such cases.
3. Grievances related to semester- 3, 4, 5, 6 examinations are addressed at the college level within one week.
4. Grievances related to semester- 1, 2, 7 and 8 examinations are submitted to University of Mumbai. Follow up of these grievances is taken personally or telephonically and the grievances are resolved. Appropriate guidance about all exam related matters is given to students and parents.
5. After the declaration of End Semester examination results, if a student has any grievance about the Term-work or Internal Test marks, then the student can submit the grievance to the Principal. Such grievances are resolved within seven days.
6. If the examinee is not satisfied with the marks awarded, he/she may apply for revaluation. Moreover, the facility of obtaining photocopy (ies) of assessed answer-books by the examinee is extended with a view to bring transparency in examinations system and ensure its credibility. We provide Photocopy (ies) of assessed answer-books within 25 working days from the date of receipt of application(s).
7. Contact details of the Examination Control Office staff are given on the college's intranet. In case of any grievance a student can telephone Examination Cell Incharge or a student can write e-mail. Grievances received through telephone calls or emails are resolved within seven days.

File Description	Document
Link for Additional Information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

In the beginning of the academic year, academic calendar is published by the University of Mumbai for respective course. The college also has its own academic calendar. The academic calendar is prepared by institute for undergraduate courses before commencement of each semester and consists of commencement of semester, mid-term break, scientist council, movie screening, schedule of internal assessment exam, declaration of internal assessment exam test results monitoring of attendance and defaulter list, Co and extra - curricular activities at the institute/ departments, tentative schedule of end-semester examinations, schedules of seminar, term work submission, parents meeting, schedule of oral and practical exam It is displayed on departmental notice boards.

The head of the department finalizes the course allocation for the faculty member's based totally on their preference and vicinity of pastime or knowledge. Subject loads are allocated to faculty members readily before commencement of semester that they could make the plans. Every faculty member prepares teaching schedule for allocated theory course at the beginning of each semester. Timetable in-charge of every branch prepares the timetable as by the recommendations of respective authorized our bodies for the number of credit score hours for each concern prior to the commencement of the semester. Time-table is uploaded on the system and shown in the respective notice boards.

Every semester consists of two internal assessment exams. An average of both these examinations is calculated the final internal marks of the student. These marks are further vitalized to characterize the branch of knowledge of quality for teaching slow students and refine their performance earlier the external examination. From academic year 2018-2019 all question papers are set by considering bloom's taxonomy and course outcomes.

Every department within the institute keeps a watch on matters of the spreading the word learning by daily monitoring by the head of the department and individual class advisor, continuous counseling on department meetings, students attitude on teaching- learning reaction. Academic activities are evermore given priority along with others activities are performed without nerve racking the classes. The Internal Assessment exam and end semester examinations are conducted as using the academic calendar and evaluation regulation follows in a shiny manner.

File Description	Document
Link for Additional Information	[View Document](#)

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 on website and communicated to teachers and students

Response:

Yes,

There are twelve (12) common POs, in addition, every department has defined separate PSOs and Program Education Outcomes (PEOs) depending on the need of the program, students and industries.   Six   (06) COs may be defined for each subject and mapped with POs .

The institute and departments communicate their Vision & Mission, POs, PEOs, PSOs, and COs through internal assessment, website, notice boards etc. Each semester conducting two internal assessments and questions of internal assessment mapped with CO.

For effective broadcasting of POs, PEOs, PSOs, COs and Vision-Mission statement with the teachers and students, activities like orientation program seminars etc are held.

The attainment of CO is measured through internal assessment.

Attainment is measured through various attributes like internal assessment, students feedback,course survey etc.

File Description	Document
COs for all courses (exemplars from Glossary)	[View Document](#)
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The institute follows Outcome-Based Education (OBE). The OBE implementation starts with the attainment of twelve (12) Program Outcomes (PO) and Program Specific Outcomes (PSO) for all the departments.

The institute has added another dimension to this process by quantification of Program Education Objectives (PEO) achievement. The hierarchy of attainment starts with the Course Objective (COB) and Course Outcome (CO) at the lowest level to PO and PEOs being at the highest level2. It has two measurement aspects-a) direct and b) indirect measurements.

 A. The direct measurement consists of the following attributes

1.CO Attainment- IA-1, IA -2

Syllabus of every course is divided into six modules and a pair of COB and CO is defined for each module The institute has prepared an automated excel template which accepts assessment details/results of above-mentioned heads. Besides that, students' cognitive learning levels are also assessed through specific types

of questions based on Bloom's taxonomy.

B. The indirect measurement consists of the following attributes

1.Faculty Feedback – Feedback given by students during the semester

2. Student Feedback on Syllabus – Student feedback on syllabus every for the subjects taught. The focus is on COattainment by various activities conducted by the teacher for the subject.

3. Alumni Survey – Taken by TPO, when the alumni visit the institute, it is focused on PEOs and their achievements. The responses of these surveys are combined with the result of the direct measurement to have an accurate measurement of PO attainment.

Describe the method of measuring attainment of POs , PSOs and COs in not more than 500 words and the level of attaiment of POs , PSOs and COs**.**

File Description	Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 92.12

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 187

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 203

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.13

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	00

File Description	Document
List of project and grant details	[View Document](#)

3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 00

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 253

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

The institute has signed MoUs with various reputed industries/organizations to enhance industry knowledge with work culture of industry among students, impart training and provide project opportunities to the students and faculties.

- College of Engineering, Pune (COEP).
- Institute of Petrochemical Engineering, Lonere (IOPE).
- B.K.L Walawalkar Medical Trust, Dervan, District :Ratnagiri (Maharashtra)
- Tata Power Skill Development Institute, Mumbai.
- DVP Infra PVT.LTD. Shringartali, Taluka : Guhagar, Disrict : Ratnagiri.
- Pethe Brake Motors PVT.LTD.
- Excel Industries LTD. MIDC Lote Parshuram.
- Suvidya Institute of Technology, Mumbai.
- GB Tatyasaheb Khare Commerce, Parvatibai Gurupad Dhere Arts and Science College, Guhagar

COE Pune's Virtual Lab is a part of the institute through which students and faculty members of all departments have access to various laboratories of esteem institutes such as IIT's, NIT's and other premier institutes.

The institute also provides infrastructure and support to the students, faculty members and staff to complete their higher education. Vidya Prasarak Mandal has a 'Council of Senior Scientists' (CSS) comrpisings of retired scintists of BARC and a few from TIFR. A team of retired BARC and TIFR scientists from different background and specialization form our Council of Senior Scientists (CSS). The CSS visits MPCOE (from VPM Thane) as frequently as is mutually convenient and spend enough time in campus to engage with the students and faculty for expert talk, for guidance on minor and major projects of students, for consultancy to neighboring industries, for delivering lectures for children of Schools and Jr. Colleges of Chiplun and neighboring villages.

Council of Senior Scientists provides its support in project work of students and also provides guidance to faculties in their research work. Guest lecturers from industry experts are conducted to bridge the gap between industry and institute. New advance technologies were exposed to students through such guest lectures.

Students have developed Go-kart vehicles and represented at national level competition 'Indian Karting Championship' held at Kolhapur. NPTEL Local Chapter was started to provide additional skill development opportunities. Students are encouraged to attend NPTEL lectures and appear for their examination.

VPM's Maharshi Parshuram College of Engineering, Velneshwar have enrolled 209 students for professional body of Indian Society of For Technical Education(ISTE).Students from Electrical and Civil department have enrolled for ISTE. They have received Life time membership cards from ISTE. By approval from ISTE college have organized various workshops.The major objective of ISTE Students chapter are:

- Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
- Providing guidance and training to students to develop better learning skills and personality.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 0

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	00

File Description	Document
List of workshops/seminars during the last 5 years	[View Document]

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: No

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
Any additional information	[View Document]

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.08

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
03	02	03	10	04

File Description	Document
List of research papers by title, author, department, name and year of publication	<u>View Document</u>

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.15

3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
02	04	02	01	00

File Description	Document
List books and chapters in edited volumes / books published	<u>View Document</u>

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

- **Cashless India**: Our objectives are to create awareness of cashless payment and give training for villagers. The study is conducted in two villages of Ratnagiri district namely Velneshwar & Palshet. The shopkeepers and vendors are hesitate to use point of sale (POS) machine because of transaction charges on POS machine are not affordable. Very less number of populations is having knowledge about internet and mobile banking. By implementing this project we have created awareness and importance of cashless transaction amongst villagers. Small movement of digital transaction has been started in the form of paying Electricity bills, mobile recharge through BHIM

app.

- **Museum on Wheels**: VPM's MPCOE has been actively supporting the arrival of 'Museum on Wheels' and stationing the vehicle in college campus and then arranging school children to be brought from neighboring schools for viewing the museum. Wherever the schools are unable to arrange their buses, MPCOE has offered its buses.

Year	From - to	Visitors
2017-18	26/02/2018 to 1/03/2018	237
2015-16	25/02/2016 to 29/02/2016	918

- **Career counseling** aims at concretizing the career dreams of the students. Career counseling session for the students (12th pass) and their parents & relatives from Konkan region was held in VPM's Maharshi Parshuram College of Engineering, Velneshwar on April 9th 2017 under .Total 59 students and parents from nearby villages attended the meeting Students are provided with ample information about the careers chosen and also furnish them with details of scholarships, free hostel facilities, residential colleges etc. that act like incentives. The primary objectives of this event was

1. Goal Sustenance and Motivation.
2. Information on scholarships, free hostels, government colleges.
3. Personalized Counseling.

- **Mobile Control Robot**: This event was conducted on 11 to 12 December 2016. Total 415 students from 13 different colleges participated. The objective of event was to give student's basic understanding of electronics, so that they can relate this field of engineering to their day-to-day life and also to create curiosity of Robotics field. Very basic fundamentals were discussed in this event and students enjoyed the task of building simple robots.
- **Life Long Learning and Extensions**: Program commenced from 2017-18 for all students of MPCOE. In addition to our other teaching responsibilities, the department committed to conduct community oriented activities to reach to unreached section of the society. The department serves as an intellectual intervention in the community's living problem which needs to overcome through an educational process. These programs will help you to face life and its challenges with greater social commitment.
- **Motivational Speeches:** Our faculty members are invited as Motivational Speakers by nearby schools and colleges. We welcome this opportunity and deliver motivational talks. We conduct various sessions about the topics Personality Development, Public Speaking, Improving Fluency in English etc. All our sessions are conducted in the pattern of activity based learning. Sessions details conducted by Mr. Dive are given below

Year	Date	Students
2013-14	25/11/2013	NA
2017-18	25/11/2017	36
2017-18	31/03/2018	32
2018-19	08/12/2018	31
2018-19	26/02/2019	92

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 0

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 years	[View Document](#)

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 4

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
01	02	01	00	00

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	[View Document](#)

3.4.4 Average percentage of students participating in extension activities with Government

Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 22.34

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
214	187	256	55	00

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	[View Document](#)

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 45

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
19	08	14	02	02

File Description	Document
Number of Collaborative activities for research, faculty etc.	[View Document](#)

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 3

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other

universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
00	01	02	00	00

File Description	Document
Details of functional MoUs with institutions of national, international importance,other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

All the physical facilities are as per the AICTE and University of Mumbai norms. Adequate numbers of classrooms are available for lectures, seminars and tutorials. The institute has different facilities like IT resources, laboratory equipment, library resources, internet connectivity, sport grounds, hostels, Utility centre, Mess, Stores, Cafeteria, Gymnasium, transport for student and staff, CCTV on campus.

- Infrastructure, at present, is as per the norms of AICTE and University of Mumbai.
- The Institute was established in 2012 with Computer, Electrical, Electronics & Tele-Communication, Instrumentation and Mechanical Engineering branches. Later, in 2013-14, Civil Engineering program was added following due process of AICTE.
- The Institute had made provisions for future expansion in anticipation of this academic growth.
- Sufficient land area is earmarked for future growth assuming still higher academic growth in future. *Details of future plan are mentioned in master drawings.*

Facilities for Divyang persons:

- Essential ramp facility along with railing is present at required sections such as building entrance, and in between two buildings.
- Lift facility is available.
- Similarly sufficient toilets are provided for Divyang persons.
- Laboratories have adequate area so that physically challenged students will not find it difficult to move about.
- At the time of examination additional time is given as per University guideline and writer for examination is also allowed for disabled student.

Sr. No	Particulars	Available
1	Toilet for Divyang	18

Auditorium: We have an auditorium with dual projectors, air conditioning system, PA system, stage and a changing room, with capacity of 350.

Hostel Facility: Occupancy status of hostel.

Separate hostels for boys and girls are available in campus.

- In-door recreation games Badminton, Table Tennis, Chess, and Carrom are provided.
- Wi-Fi facility is available across college campus (16 MBPS).
- Institute has MOOCS facility for faculty and staff.
- First-aid box is available in each department.
- Total 3 buildings housing faculty members are provided by the institute at present. In that total 24 (3-BHK) flats are available. Each flat is furnished with essential furniture such as cots, cupboards,

kitchen etc. and has solar heated hot water.

- LAN & Wi-Fi connectivity and TV cable connectivity are available. Backup electricity supply is also provided through a Generator unit.
- Institute has its water supply scheme.
- Round the clock security is employed. The campus is protected by compound wall. Security works for 24 hours in three shifts.
- Whole campus is under CCTV camera surveillance. A total of 120 cameras are fitted as strategic locations.
- Intercom facility is available at Office, faculty cabins, labs, residential quarters, rector room, canteen, utility center; security office and maintenance office.
- Guest house with air conditioned roomss are available for special guest-parents, VIP visitors at "Aparant" with 11 rooms equipped with excellent hospitality services.
- Bus facility is provided to students & employees of MPCOE. Buses ply between college campus and Chiplun, Guhagar, Chikhali and Shrungartali.

File Description	Document
Link for Additional Information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

Besides emphasising on the significance of academics, MPCOE encourages its students to take part in sports and cultural activities for physical as well as mental fitness. This opportunity will make them ready to face challenges and to show unseen talents. The institute always encourages and provides facilities for the students to participate in the cultural, sports and extra-curricular activities at the institute, intercollegiate, university, state and national levels.

A)Sports-

1)Sports grounds:-

Institute has multiple ground/open space mostly suitable for playing football, cricket and some other outdoor games.

Events: Annual sports are conducted every year with different sports activities being organized by institute. SAPTAK is our annual event and prior to it, interdepartmental sports' competitions are organized.

2)Outdoor games facility:-

Football, Cricket, Volleyball, Kabaddi, Badminton, Table Tennis, Chess and Carrom Tournaments are conducted. Institute has facility of Gymnasium for Girls and Boys.

Sr. No	Name of Game	Utilization	Quantity
1	Over arm cricket	Frequently used	Ball- 18 Bat -2
2	Under arm cricket	Frequently used	Ball-2 Bat-1
3	Kabbadi	Used during sports events	-
4	Volleyball	Frequently used	4
5	Football	Frequently used	3
6	Tug of war	Used during sports events	Rope-1
7	Throw ball	Used during sports events	2
8	Dodge ball	Used during sports events	4*
9	Race (100, 200, 400, 1600 M)	Used during sports events	-
10	Relay	Used during sports events	16
11	Javelin Throw	Used during sports events	4
12	DISC Throw	Used during sports events	3
13	Shotput	Used during sports events	3
14	Marathon	Used during sports events	-

3) Indoor games facility:-

Sr. No	Name of Game	Utilization	Quantity
1	Carrom (Singles/Doubles)	Frequently used	7 boards
2	Badminton (Singles/Doubles)	Frequently used	1 court
3	Table tennis (Singles/Doubles)	Frequently used	2 tables
4	Chess	Frequently used	8 boards

4) Gymnasium Facility : MPCOE gym is a state-of-the-art facility for students and staff. An investment of about Rs. 25 lakhs has beed done here. Some of the main equipment in this gym include Pulley mechanism for

Access to gym is through access card (ID card of students and staff). Resident teacher(s) who are its

regular users, have been given the responsibility of supervising gym culture and ensuring that gym equipment are always in working condition. Gym is kept open for specific hours in the morning and in the evening by resident caretaker. A list of equipment in gym is attached elsewhere in SSR. Some of the most popular equipment in the gym are Lat Pulley, Peck Deck, Weight assisted chain up bar, Smith press, Cross over pulley, and Leg extension curl.

B) Students Cultural activity:-

1. Students Recreation Activity: The institute conducts session to welcome fresher and farewell to final year students.
2. "SAPTAK" Annual cultural event: "SAPTAK" is organized every year for students, faculty and staff. It is usually a week-long sports and cultrual festival with lots of events.
3. Magazine Committee: The institute has magazine committee consisting of students and teachers to prepare and publish college magazine MANTHAN with English, Marathi and Hindi content.

File Description	Document
Link for Additional Information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 6.45

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 02

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
Link for additional information which is optional	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 43.21

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
2.15	33.05	153.11	341.56	347.95

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

1. Library has KOHA software which is one of the open source softwares. It is used for the administration work of Library. It has 12 modules which perform the task of acquisition, circulation, patron details, Serial Control etc. All modules are performed by Admin interface of this software. We can get all type of library utilization reports and circulation histories of each Patron form this software. Presently we are using 18.11.04.000 version of KOHA.
2. KOHA has user interface which is Called OPAC (Online Public Access Catalog). Through OPAC, library users search books by title, Author, Keywords, ISBN or any other MARC record. Every Student has his/her login ID through which they can check the circulation history and present issued books. We have created KOHA server and anybody can access it from intranet within campus.
3. Central Library had created institutional repository database in Dspace where we have uploaded the material created by our teachers. Material includes Videos, PPTs, Laboratory Manuals, Lecture Notes etc. Dspace also preserved all the materials which are purchased in e-form and make searchable through Dspace. University Syllabus, University Question Bank and other useful Material for student preserved on Dspace.
4. Library provides NPTEL videos through intranet. Those students who do not have laptop for them, Library have video room facility to watch these NPTEL and lecture videos.
5. Library has created home page on intranet having section like address book, Moodle, Dspcae, Academic Calendar, OPAC, KOHA, Guest lecture, NPTEL, Virtual Lab etc. Student, Faculties and staff access all the e-material through this homepage.
6. Library has barcode facility for all type of study materials.
7. Library has Computing Facility with internet and multimedia
8. Library preserved 113225 research articles of different Engineering branch and created database (e-Journal) on Dspace to access all these papers.
9. Library preserves 276 e-books on Dspace.
10. College Library has membership of National Digital Library (NDL).

MPCOE library is adequately stocked with curriculum books, other literature, journals, and also houses newspapers in Marathi and English for daily readers.

It has more than 11000 books for reading and reference. Users are granted access to library through access card. The reading hall of library has seating capacity of 150. Desktops are provided in reading area for academic work and for internet access. Tables are arranged in the reading area for individual as well as group reading.

Cubicles are also available for more focussed and research minded student.

This Institute Central Library is fully digitized using KOHA software. Online Public Access Catalogue (OPAC) enables the users to have the online check of the availability of books in stock and those issued to the members. The library provides campus-wide access through the ILMS which includes -

1. A search of books through the online catalog.

2. Request for books.

3. Search through keyword and topic search are available on OPAC.

4. Book issue and return through the barcode-based system (in the library only).

File Description	Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

The institute has a rich library with more than 10070 books and 1950 volumes of other knowledge Resources.

A) Rare books:	NIL
B) Rare manuscripts:	NIL
C) Rare special reports:	NIL
D) Other knowledge resources for library enrichment	1950 nos

File Description	Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

    1.e-journals
    2.e-ShodhSindhu

3.Shodhganga Membership

4.e-books

5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	[View Document](#)
Any additional information	[View Document](#)

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 7.7

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
2.01	7.73	17.03	7.96	3.78

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	[View Document](#)
Audited statements of accounts	[View Document](#)
Any additional information	[View Document](#)

4.2.5 Availability of remote access to e-resources of the library

Response: No

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 1.85

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 13

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The IT infrastructure facility is central as well as decentralized in each department and administrative area. Central facility includes internet centre common for all. Each department has separate computing facility and is equipped with application software. Internet, LAN and Wi-Fi are available on all computers in the system. Printers are also on LAN. Most of the application software's are server based, excepting few which have standalone license. The Information and communication technology set has following salient features:

- Institute has a Diesel Generator of   320 KVA backup. Along with this a UPS backup facility of 60 KVA for all computers and servers.
- 140 Numbers of CCTV are installed at whole campus.
- Institute has one Leased lines of 16 mbps.
- Institute has 4 No's of telephone lines from BSNL line with Line protection unit/device. To connect the whole campus through telephone line, an EPABX system with 300 Extensions is installed.
- Institute has 2 servers which are connected with KVM Switches.
- Video Conference facility through software.
- Internet facility is provided on all 262 computers.

Summary of equipment is given below:

Sr. No	Particulars	Quantity/Details
1	Total number of PC's	263
2	Legal system software along with valid license	Available
3	Legal Application software along	Available

	with valid licens	
4	LAN & Internet	Yes
5	Internet speed in MBPS	16 MBPS
6	Printers	14
7	PCs available for administration / Office use	12
8	PCs in Library and Language Lab as per norms	13+26
9	PC made available to faculty	46

IT related infrastructure is preferably upgraded to enhance ICT based teaching-learning in view to keep pace with the recent developments in the respective fields of engineering and technology. IT maintenance is housed in a server building which maintains and supports IT laboratories, 262+ computers with LAN, Wi-Fi and internet facility. Server room is equipped with State of art HP Server with Cisco |Router for connectivity and Fortinet as Firewall.

Student– Computer ratio of 1:1 is maintained while practicals are performed. Wi-Fi is available across the campus including the library, laboratories, faculty rooms and staff rooms, hostel rooms. The campus is under open surveillance of CCTV cameras at strategic locations in administrative and academic areas for the safety of students, hostel entrance, faculty members, staff and visitors as well as for the protection of the infrastructure. The library is fully automated with computers reserved for OPAC and internet access.

File Description	Document
Link for Additional Information	[View Document](#)

4.3.2 Student - Computer ratio

Response: 3.47

File Description	Document
Any additional information	[View Document](#)

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: 20-35 MBPS

File Description	Document
Any additional information	

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Any additional information	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 55.13

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
156.62	165.11	158.89	116.89	98.56

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document
Any additional information	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Household maintenance staff are employed on contractual basis for academic, laboratory, Instructional,

Gymnasium, hostel and residential campus. Garden staff are also contractually employed for regular maintenance of garden are and its development.

Maintaining & Utilization

Name of items	Frequency	Type of maintenance
Cleaning of academic buildings	Daily	Preventive
Water tank cleaning	15 Days	Preventive
Fire hydrant system & cylinders	Yearly	Preventive
Grass cutting machine	Breakdown	Preventive
Generator	Breakdown	Preventive
Inverter Batteries	Breakdown	Preventive
Terrace cleaning	Monthly	Preventive
Lift	Breakdown	Preventive
Water coolers	15 Days	Preventive
Painting	-	Preventive
Solar system	As an when needed	Preventive
Classroom & Laboratories	Daily	Preventive
Library	Daily	Preventive
House keeping	Daily	Preventive
Electrical tools (Tubes, Fan)		Breakdown
Pumps		Breakdown
Street light repairing		Breakdown
Plumbing work		Breakdown
Carpentry related		As an when needed
Fire Extinguisher	Yearly	Demonstration and Refill

IT infrastructure related maintenance:

Name of item	Frequency	Type of maintenance
WIFI Modules	Breakdown	-
LCD Projectors	Breakdown	-
CCTV Cameras	Breakdown	-
LAN cable & ports	-	Breakdown

Institute has two separate departments to take care of maintenance related activities:

1. Site Office looks after all maintenance of civil, water , sanitary, garden, electricity and guest house facility. Round the Clock security system provided in three shifts.

2. Systems Department for IT infrastructure related maintenance:

All computers and networking facilities in the institute are under the observation of the Systems Department (Server Room).

The maintenance under both categories is carried out using following methods:

A) Breakdown Maintenance Procedures (Common for Civil and IT infrastructure):

1. Faculty /staff place a service request related to construction and maintenance and the Head of the concerned (Site Office /Server room) department verifies it

2. The service request generated by concerned faculty/staff is registered through the service request form for Server room /complaint Register at Site Office.

3. The service request is registered by Site Office /Server room in the register maintained and HoD of the concerned department (Site Office, Server room) verifies it.

4. Maintenance staff is available for particular service requested. The Head of the concerned department (Server Room, Site Office) takes a final decision in this regards.

5. If the problem is resolved, the service request form, duly signed by the concerned Head, will be attached to the file of the service requests and the service request register will be updated for future reference.

6. If the service request is not resolved due to a requirement of a material, a remark will be given, and after purchasing the material, the service request will be resolved.

File Description	Document
Link for Additional Information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 64.33

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
452	487	411	308	174

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)
Any additional information	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 0.34

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	11	0	0

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)
Any additional information	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. **For competitive examinations**
2. **Career counselling**
3. **Soft skill development**
4. **Remedial coaching**
5. **Language lab**
6. **Bridge courses**
7. **Yoga and meditation**
8. **Personal Counselling**

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: B. Any 6 of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 13.51

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
135	191	118	00	00

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	
Any additional information	

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 0

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the students benifitted by VET	

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	
Details of student grievances including sexual harassment and ragging cases	
Any additional information	

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 5.51

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
14	17	19	0	0

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 1.09

5.2.2.1 Number of outgoing students progressing to higher education

Response: 2

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 40

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	3	1	0	0

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	3	1	0	0

File Description	Document
Upload supporting data for the same	[View Document]
Number of students qualifying in state/ national/ international level examinations during the last five years	[View Document]

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) during the last five years.

Response: 1

5.3.1.1 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-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	1	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	[View Document]
e-copies of award letters and certificates	[View Document]

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

As the institute is located in a remote and rural region, and the majority of students hail from Ratnagiri district, the students, by nature, are quiet and avoid taking part in many activities of the institute. However, the Institute endeavors to expose the students to all permitted platforms including the Students' Council.

MPCOE has an active Students' Council from the academic year 2016-17. It is elected by the Class Representatives (CRs). CRs are usually chosen on merit to send a positive message to other students to perform and excel.

The CRs choose, from amongst them, office bearers of the Students' Council, namely, General Secretary, President, Cultural Head and Sports Head The President of the council is a representative on **College Development Committee** (CDC) which is a University requirement. Thus, the President of Students' Council conveys, issues related to students, in CDC which is presided over by the Chairman of VPM.

The Students Council organizes different cultural, academic and sports events every year. **Saptak** is MPCOE's main sports and cultural event and it is organized by the Students' Council.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 6.6

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	7	8	4

File Description	Document
Report of the event	[View Document]()
Number of sports and cultural activities / competitions organised per year	[View Document]()
Any additional information	[View Document]()

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

Alumni Association of the institute is formed on 2nd March 2019. The first alumni meet was also scheduled on the same day. Some students from 2016-2017 passed out batch were present for the meeting. The Executive committee for year 2019-20 is formed during the meeting. Mr. Zayeem Solkar is unanimously elected as chairman of the first Alumni Executive Committee. Alumni Association will work for the betterment of students in terms of internship, field trainng, placement, field training and entrepreneurship. Alumni students also have their representation in IQAC committee.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document](#)

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 0

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document
Report of the event	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

1. **VISION-**

To be a leading, dynamic and responsive centre of Excellence in Engineering and Technology on National stage, to generate, absorb, disseminate, protect and preserve knowledge by encouraging expansion of human knowledge to benefit mankind and drive regional, national and global societal transformation through research integrated with education in a collegial, interdisciplinary, inclusive atmosphere of spirit of inquiry and contribute thereby to the development of socially sensitive students and teachers, who can embrace state-of-the-art information and communication Technology and identify a holistic and integrated view of life as a fusion of mind, body and spirit, to be creative, ethical and exemplary members of a seamless, global society.

MISSION-

To position Maharshi Parshuram College of Engineering (MPCOE) as learning Organization and an important member of knowledge society in seamless world, where all stakeholders of MPCOE work with, listen to, and respect each other to function synergistically with a sense of excitement, enthusiasm and enterprise towards the holistic development of students and teachers who are encouraged to be honest, ethically rich, creative and responsible citizens.

CORE VALUES-

1. **DISCIPLINE-** It is the practice of training people to obey rules or a code of behaviour, using punishment to correct disobedience.
2. **PUNCTUALITY OR RESPECT FOR TIME**- We promote punctuality and Time Management among Stake Holders.
3. **FREEDOM OF THOUGHT AND EXPRESSION-** We believe that Freedom of Thought and Expression is necessary , as without this overall development of individual cannot be completed.
4. **HONESTY AND INTEGRITY-** We are committed to practices that are fair, honest and objective in dealing with students, faculty members, staff and stake holders at all levels of Institution.
5. **EXCELLENCE-** We promote Excellence in whatever constructive and productive work / activity Students/ Faculties do.
6. **ACCOUNTABILITY AND TRANSPARENCY-** We believe in having complete transparency at all levels of hierarchy to promote a healthier working atmosphere to all. We believe in Accountability for and Transparency in, all our deeds and actions.
7. **PERSEVERANCE-** We encourage Perseverance in doing something despite difficulty or delay in achieving success.
8. **ENCOURAGEMENT-** Encouragement is provided for critical and quantitative thinking, effective communication, ethical decision making and social obligation in our students.
9. **SOCIAL RESPONSIBILITY-** We are focused on promoting the sense of social responsibilities in

students by involving them in various social activities that gives them a broader perspective of understanding the causes and possible solutions related to various social issues.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

Decentralization:-Institute has many different committees/cells which are given below. Internal Quality Assurance Cell has been formed in the year 2018-19 whereas others are operational from the year 2012-13.

Committee/cell/Coordinator	Roles and responsibilities
Board of Governors	To ensure that stakeholders, including faculties, students and institutional management, and others associated with institute have confidence and trust in our institution
College Development Committee (earlier known as Local Managing Committee)	The college development committee is formed with an objective of taking inputs from faculties and harmonizing them with administrative decisions. The same committee was earlier known as Local Managing Committee, formed in the year 2013. From 2017-18, it has been renamed as College Development Committee due to circular from University of Mumbai.
Internal Quality Assurance Cell	To promote /Improve Quality in all aspects like Internal exam, Industry Institute interaction by Internship, SoftSkills Training ,Mentorship etc. with involvement of all stakeholders of institute.

CASE STUDY: The Chairman of Vidya Prasarak Mandal, Thane encourages conduction of various Outreach / Awareness Program / Social and educational activities through Central Library of college. Accordingly, following activities have been conducted by the Central Library.

Objective : To arrange Outreach / Awareness Program / Social and educational activities through Central Library of college.

1. Librarian Mr. Chaturbhuj delivered lecture on "Creation and Innovation in Library Services" at the Conference for Principals and Heads of Departments of VPM's Group of Institutions on 14th June, 2013.
2. National Workshop on "Koha Open Source Library System" was conducted from 18th to 20th February 2015.
3. National Workshop on "Koha Open Source Library System" was conducted from26th to 28th

November 2015.

4. Chairman of VPM and the Librarian delivered lecture at the seminar arranged by Ratnagiri Public Library Association at Mundar, in Guhagar tahsil on 5th April 2015.

5. National Workshop on "Bibliometrics, Scientometrics and Webometrics" was conducted from 15th to17th February 2017.

National Workshop on "Open Source Software for Bibliometrics, Scientometrics Analytical Tools (Bibexcel and SciMAT)" was conducted from 8th to 10th February 2018 wherein 140 participants from various countries participated through webinar.

Conclusion of Case Study --- Outreach program /Awareness and Educational Activities suggested by Chairman were implemented by Library by conducting Workshop in college. Library and his team arranged above program effectively to achieve its objective.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Vidya Prasarak Mandal, Thane (VPM) a renowned educational institution in Maharashtra established in 1935, has been imparting quality education to over 15,000 students through its schools and colleges in Thane. Now it intends to spread its educational activities in rural area of Konkan. Hence it started a world-class engineering college with the state-of-the-art facilities at Velneshwar. At Velneshwar 35 Acres township college campus contains 3 academic buildings (Shripati, Bhaskaracharya and Ganesh Daivadnya) that consist of step auditorium for every building, 5 hostel buildings(Dnyaneshwari 1,2,3,4&5), 3 teachers buildings(Dronacharya 1,2&3), gymkhana building (Kridasankul), utility building (Vividha), VPM Building (Nana Phadnavis Sabhagriha, Cafeteria) and guest house (Aprant). Entire academic campus as well as residential area is connected through fiber-optic backbone having 24 hours leased line Internet connectivity, Electronic Security and Power backup. Intranet Culture is developed for faculty, staff and for the growth of students. The said campus becomes functional from the Academic year 2012-13. Academic buildings constructed with barrier free environment, necessary security measures are incorporated (Fire Safety, CCTVs etc.) as per AICTE guidelines.

Long term strategy of VPM's MPCOE

1. When the college started in 2012-13, only the Director and Principal were Ph.D. holders.
2. Since the management wanted to attract meritorious students of nearby Junior Science Colleges, it realized that it would require qualified as well as experienced teachers in every branch.
3. But qualified and experienced teachers were scarce and were unwilling to stay in Velneshwar.

4. Therefore Management decided to motivate existing teachers & staff to pursue higher qualification.
5. A study leave of 30 days was announced for this purpose to facilitate studies, preparation for exams etc.while pursuing higher studies. This leave was in addition to other routine leave which faculty members are entitled as per policy of Management.
6. As a result, one teacher from Humanities & Applied Science Department completed Ph.D. in 2017.
7. The Librarian Mr.Santosh Chaturbhuj has registered for Ph.D., Mr. Ganesh Dive - ASH, Mr.Rajnitu Rakshaskar - Mechanical & Ms. Pradnya Gokhale - Instrumentation have also registered for Ph.D. Mr. Satish Ghorpade is completing his courses under Ph.D. program.
8. Many teachers who are only B.E. have started pursuing M.E./M.Tech.
9. As on date the status is
   - Faculty with Ph.D. = 03
   - Faculty pursuing Ph.D. = 05
   - Faculty with PG = 36
   - Faculty pursuing PG = 08
10. To provide Quality education in Rural Konkan region.
11. To make all efforts to make VPM's MPCOE, Velneshwar Students academically competent and also a responsible citizen, ready to join Nation building.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)
Strategic Plan and deployment documents on the website	[View Document](#)

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

Vidya Prasark Mandal, Thane is an education trust working since 1935. It has around 16 Institutes in India and outside. It has its own organizational frame work for smooth functioning of the institute. Vidya Prasarak Mandal, Thane established Maharshi Parshuram College of Engineering under its education mission in 2012. Managing Committee of VPM strive to achieve goals, Objectives of VPM and to ensure smooth functioning and efficient use of resources of the institute. The institute also has institutional bodies like- Board of Governors (BOG), College Development Committee (CDC) and IQAC. The Managing committee provides broad guidelines to the BOG of the institute.

BOG frames the policies and directs their execution to conform with the vision and mission of the institute along with inputs from CDC and IQAC. The prospective development plan of the institute including the short term and long term goals is prepared by the BOG. Adhering to them, BOG makes major policy decisions, approvals of recommendations by CDC.

CDC is responsible for preparing an action plan to achieve the directions of BOG. It also considers

feedback of various stakeholders and recommendations of IQAC. IQAC coordinator is a part of CDC. CDC gives recommendations on the report prepared by the Principal, to be submitted to BOG about functioning of the institute, budgetary provisions, faculty and staff selection/recruitment, faculty and staff appraisal and infrastructure development.

Committee members of IQAC at MPCOE are:

- Principal
- HoDs
- Department representatives
- Management representative
- Society representative
- Senior teacher as NAAC Coordinator

In each department committees like Course Coordinator, Program Coordinator ,Journal Club gives academic and administrative functioning input to respective HoD and Department IQAC representative.

The Principal harmonize the overall functioning of the institute and ensures compliance to AICTE, DTE and University through Registrar, HoDs and Faculty. The Principal prepares reports such as financial budget, status of faculty members, requirement in terms of equipment, development of infrastructure and resources. He also consults with HoDs and IQAC coordinator.

All academic and administrative departments have designated heads. All heads coordinate respective departments to ensure the amicable functioning of the institute and policies to achieve vision, mission and goal of the institute and department.

Service rules are as per AICTE, DTE, University of Mumbai and VPM norms. Further, certain norms within the framework of service rules have been designed by the institute through various procedures and quality manuals.

Recruitment of faculty members and staff is done as per the norms laid down by AICTE and affiliating University and its approval by the management. The promotional policies for faculty members are based on AICTE Career Advancement Scheme (CAS) and performance based appraisal system adopted by the institute. Performance based appraisal process is also followed for non-teaching staff.

Grievance Redressal mechanism is observed through various committees constituted such as Internal Complaint Committee (Grievance Redressal & Vishakha Committee), Anti Ragging Committee, Canteen Food Committee etc. The Institute has established online grievance redressal mechanism.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation

1. **Planning and Development**
2. **Administration**
3. **Finance and Accounts**
4. **Student Admission and Support**
5. **Examination**

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)
Any additional information	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

The institute has total six (06) departments and Thirty Three (33) committees distributed under the purview of Principal, HoD, faculty Coordinators and students. The main aim of this is to decentralize the curricular, co-curricular, extracurricular activities, encourage participative management, and an effective implementation of policies and to achieve the set goals.

Committees are

1. Board of Governers (BoG)
2. Local Managing Committee & College Development Committee (CDC)
3. IQAC Committee
4. The Scheduled caste & Scheduled Tribes Committee
5. Anti-Ragging Committee & Anti-Ragging squad
6. Grievance Redressal Committee & Vishakha Committee
7. Library Advisory Committee

These bodies/committees conduct activities and meetings.

IQAC Committee --

Some of the quality initiatives of IQAC are:

1. Mentoring and counseling through mentor-teachers
2. Outcome Based Education
3. Remedial action for Slow and Advanced Learner
4. Motivating the faculty members for research and development

CDC

1. Prepare an overall comprehensive development plan of the college regarding academic, administrative and infrastructural growth, and Enable College to foster excellence in curricular, co-curricular and extra-curricular activities;
2. Decide about the overall teaching programmes or annual calendar of the college;
3. Plan major annual events in the college, such as sports events, cultural events, etc.

Roles of BoG

The BoG is the custodian of the Institution, Chairman/Member can guide/support directly or indirectly in the areas of expertise or position

1. Set short term and Long Term Goals
2. Developing the Strategic plan
3. Adapting Good Governance Practices
4. Mentoring
5. Academic partnerships
6. Industry Interface

Some Initiatives are

- **Activity Planned:** It was observed that 12th Science result is above 90% in Guhagar Taluka but the number of students qualifying for engineering is very less. To improve their score mainly in Mathematics, Physics and Chemistry, it was decided to conduct crash course in nearby Junior Colleges.
- **Activity Implemented:** With the planning and prior permission from junior colleges, Crash Course was successfully conducted in 3 Junior Colleges From 12th November 2018 to 20th November 2018. Mathematics, Physics and Chemistry subject faculties of MPCOE worked as experts for crash course. Total 142 students participated in the crash course activity. At the end of crash course feedback was taken and it reflects that crash course will help the students to improve the score.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Institute Provides following measures towards welfare of faculty and staff.

- **Provident Fund** – 100% employees including contractual and security staff are covered under Employee Provident Fund Scheme. Regular contribution of Employer and Employees is transferred to PF A/c of respective employee through online mode.
- **Gratuity** – All regular employees have been covered under Payment of Gratuity Act, 1972. A separate trust named **'LIC's Employees Group Gratuity Scheme'** Group Gratuity Scheme is created and funds are being handled by **LIC of India.**
- **Group Accident Insurance Policy –** The Oriental Insurance Company's **'Student Safety Tailor Made Policy**' covers all the employees & can get compensation of **Rs. 100000/-** in case of accidental Death or disablement due to accident.
- **Deputation of faculty and staff members for higher education –** MPCOE has its own policy to promote faculty and staff for their higher education. Under this policy from 2012 to till date MPCOE has promoted five faculties for their higher education on full/part time basis . Apart from this for higher studies, Study Leave of 30 days in a calendar year can be availed by faculties for the same.
- **Maternity Leave -** The institute has provision of maternity leave to all female employees for their first two children.
- **Financial Assistance –** Facility of Duty Leave is available to teachers for attending conference /seminars/ orientation programs as a participant and/or resource person. Accommodation is provided to faculty members.
- **Study leaves & compensatory OFFs: -** Study leaves are given to faculties pursuing for higher education and also for those who opt for GATE/NET/SET etc. Teaching and non-teaching staff is also entitled for compensatory OFFs, wherein, they can take leave if they have worked on holidays.
- **Timely payment facility: -** salaries are paid in time for each month and are directly credited to bank account.
- **Miscellaneous: -** Campus has good WiFi connectivity, with high speed OFC cables serving as backbone network. All college buildings are provided with CCTV surveillance, fire extinguishers and smoke detectors. Institute also has pure veg canteen, which provides hygienic food and it also has water purifiers installed at different locations. Tea and snacks are served during breaks and this facility is partially payable. The institute has residential campus, with rooms endowed with quality furniture and modern amenities.The college has well equipped gym with quality set-ups fitted in. The college has cafeteria, where, students staying outside of the campus take their lunch. Last but not the least, discipline has been given prime importance to make the students sustainable in this competitive world. Shoes and ID cards are made compulsory for students, faculties and non-teaching staff.

File Description	Document
Any additional information	[View Document]
Link for Additional Information	[View Document]

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 3.86

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
09	01	02	00	00

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	[View Document]
Any additional information	[View Document]

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 1.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
02	1	1	03	2

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	[View Document]
Any additional information	[View Document]

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 22.08

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
23	21	13	09	03

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	View Document
IQAC report summary	View Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The Performance Evaluation and Appraisal System is implemented in a systematic manner for all the Teaching and Non-Teaching Staff of the Institute at the beginning of every academic year usually in the month of June. The performance is evaluated considering the aspects shown in the appraisal form attached below. Necessary forms designed by the Institute for undertaking the exercise of performance evaluation are circulated to all the employees for submitting their self-evaluation along with supporting documents wherever applicable. Thereafter the forms are forwarded to Principal with the remarks of the concerned HoD for a face-to-face interaction with every employee to encourage active participation and ensure an unbiased analysis. The panel comprises of Chairman,Principal,Registrar and HoDs.

Further, as a part of performance appraisal, at the end of each semester, Students are informed to fill up online feedback forms. The feedback forms in the form of questionnaire collect information about the teacher and different aspects pertaining to the teaching process. A team consisting of the Head of the Department and Principal, goes through the feedback forms collected from the students and suggests suitable measures to improve the teaching-learning process.

The performances are classified into Four broad categories

- Teaching, Learning and Evaluation related activities
- Co-Curricular, Extension and Professional Development related activities
- Research Publications and Academic Contributions
- Strength, Weakness and Opportunuties

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The institute has its own system for internal audit. Our internal audit system comprises of storekeeper, heads of departments, few senior faculty members and lab incharges. These groups are finalized by Principal and then these groups conduct departmental audit separately, without any bias. Those audit reports, as a small part of whole audit, are then sent for final audit to Chartered Accountant Mr. S.V. Kale from Mumbai. So far there have been no major findings / objections. Minor errors of omissions and commissions when pointed out by C.A. are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. Mr. S.V. Kale (Chartered Accountant) from Mumbai has been conducting internal audit yearly since last sevaral years. Links of audit statements of last five years along with internal audit lab reports are given below.

Audit program is mainly focused on following areas:

1. That all project funds have been used as per the conditions of the relevant financing agreement and transparency is maintained at every level of expenditure.
2. All necessary supporting documents, records and statement of accounts have been maintained and all necessary supporting documents such as records,vouchers,bids, etc. and books of accounts have been kept in respect of all project expenditures.
3. That there is consonance between the accounts sheets maintained for the expenditures and reports presented for expenditure incurred.
4. Clear linkages exist between the books of accounts maintained for the expenditures and reports presented for expenditure incurred.
5. That test check and verification of the activities were conducted for the project as planned and that they were in line with the agreed plan of expenditure.

File Description	Document
Link for Additional Information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the

last five years (not covered in Criterion III) (INR in Lakhs)

Response: 1.55

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0.12	1.43	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	[View Document](#)
Any additional information	[View Document](#)
Annual statements of accounts	[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute has a proper and transparent system for effective and efficient use of available financial resources. Finance Committee and principal are major stakeholders, who constantly monitor and encourage for the proper utilization of allocated funds as per need. Financial matters are closely monitored by the accounts office.

The funds are allocated to each department during the preparation of yearly budget. This budget is generally for the requirement or up-gradations. Financial matters are closely monitored by the accounts office. In case of any need where the financial support is required, proper demand in writing is made from the concerned Department e.g. in case of any requirement, the details of the requirement of the equipment, maintenance infrastructures etc. are prepared and proper procedure for purchase is adopted.

- Institute adheres to Utilization of budget approved for academic expenses and administrative expenses by management.
- After final approval of budget the purchasing process is initiated by accounts office in consultation with head of department, accordingly the quotations are collected and after the negotiations, purchase order is placed.
- The payments is released after delivery of the respective goods and it is done as per the terms and conditions mentioned in Purchase order.
- All transaction has transparency through bills and vouchers. The bill payments are passed after testing & verification of items. Only authorized person operate the transaction through bank.
- Respective faculty member along with head of the department ensures that whether suitable equipment/machinery with correct specification is purchased.
- The entire process of the procurement of the material is monitored by the Purchase committee

under the watch of Principal.

- A statement of accounts containing details of income and expenditure, including budgetary is placed in front of the Finance Committee after which it is placed before principal for final approval.
- Financial audit is conducted by chartered accountant every financial year to verify the compliance.

File Description	Document
Any additional information	**View Document**
Link for Additional Information	**View Document**

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Since quality enhancement is a continuous process, the IQAC will become a part of an institution's system and work towards realizing the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of institutions. The IQAC will make a significant and meaningful contribution in the post-accreditation phase of institutions. During the post-accreditation period, the IQAC will channelise the efforts and measures of an institution towards academic excellence.

Some of the quality initiatives of IQAC are:

1. Mentoring and counseling through mentor-teachers
2. Outcome Based Education
3. Remedial action for Slow and Advanced Learner
4. Motivating the faculty members for research and development

1) Mentoring:

The method adopted for monitoring is given below :

1. Approximately 15 students (mentees) are assigned to the faculty member (mentor) at the beginning of the academic year,
2. The mentor interacts with the mentees and communicates to the committee periodically and/or as and when required.
3. The committee meets regularly to take stock of activity and address related issues.

2) Outcome based Education

Question paper for Internal Assessment is based on Blooms Taxonomy. Course Outcome (CO) and Blooms Taxonomy Level (BLL) is indicated on the question paper. This direct assessment method will evaluate students on their understanding of Course Outcome and Blooms Taxonomy Level. CO Attainment is done for Internal Assessments

3) Remedial action for Slow and Advanced Learners

Slow and Advanced Learners are identified for each semester. Remedial action are taken for Slow Learners areas follows

- Two Assignments
- Coaching

Remedial action are taken for Advanced Learners areas follows

- Gate Questions

4) Motivating the faculty members for research and development

- Journal Club is formed in each Department to promote Research Culture in Faculties.

IQAC keeps followup meetings and discussions are held on

- Importance of NAAC Accreditation for the Institute.
- Vision and Mission Statement of Institute and Dept as well.
- Data Collection on Criterias 1 to Criteria 7 across each department
- Criteria Wise Consolidation
- CO , PO and its attainment
- How to classify Slow and Advanced learners
- Result Analysis
- MentorShip System
- Parents Feedback
- Alumni Feedback

5) Training and Placement (T&P): The college has training and placement cell since 2015, besides carrying on campus drives, T &;P cell also conducts seminars, workshops, Mock Interview sessions and Soft Skills development programmes.

Benefits

IQAC facilitates/contributes:

- To heighten level of clarity and focus in institutional functioning towards quality enhancement and to facilitate internalization of the quality culture.
- To enhance and integrate among the various activities of the institution and institutionalize good practices.
- To act as a change agent in the institution.
- To have smooth flow bln internal communication.

File Description	Document
Link for Additional Information	[View Document](#)

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

The IQAC has been monitoring the quality of teaching learning process, structures and methodologies of operations and learning outcomes at periodic intervals during its monthly meetings. Two Examples of Institutional Reviews and Implementation of Teaching, Learning Reforms facilitated by the IQAC:

1) CO-PO Attainment: - Outcome-Based Education (OBE) is a student-centric learning model that helps teachers to plan the course delivery and assessment with the end point in mind.

- This practice has been started from academic year 2018-19. It introduces the concept of Bloom's Taxonomy in question papers of the Internal Assessment. Standard framework along with inclusion of Bloom's taxonomy to evaluate department level CO-PO attainment was designed and implemented as per IQAC recommendation
- In each course, the level of attainment of each CO is compared with the predefined targets,if it is not, the course coordinator takes necessary steps for the improvements to reach the target.
- With the help of CO against PO/PSO mapping, the PO/PSO attainment is calculated by the programme coordinator.
- For every Course, there are number of outcomes to be achieved at the end of the course. This outcome is usually a combination of main course content and may cover more than one topic. All course outcomes shall have linkage to programme outcomes in such a way that the strongest relation has the weight 3 and the weakest relation is

2) Feedback system:- The IQAC regularly collects online feedback on teacher's performance and methodology of teaching. After receiving the data, IQAC analyses it online and interprets the same. On the basis of the drawn conclusions, it takes necessary action if it identifies any dissatisfaction from the students on any aspect of teacher efficiency. Accordingly, it submits the feedback reports to the Principal for further action. If any teachers require personal counseling, the Principal calls a meeting with the head of the department and the individual teacher and discusses the matter

- Earlier the institute was having offline feedback system wherein students were given hard copies of feedback forms, after collection of all the data, it was interpreted with the help of bar charts/graphs.
- Last year, Our college developed software where this system was made online. Students fill these feedback forms online and the system has become more secure and transparent.

3) Slow and advanced learners:- The institute has started system for slow and advanced learners. Students enrolled in various disciplines are identified as slow and advanced learners based on their Internal assesment marks and marks in University exams. This helps to identify the slow learners and to design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and the advanced learners. The tutors of the respective classes conducts extra lectures and give additional

assignments.

* Special attention is given to the students in the tutorial classes, who are identified as the slow learners.
* Slow learners are specially advised and counseled by a Teacher Guardian and the subject expert.
* Remedial classes are conducted for the weaker students based on the results of class tests.
* Special bridge courses are arranged for the lateral entry students in the II year to help them cope with theory subjects.
* Advanced learners are offered special GATE coaching.
* Advanced learners are motivated to involve in research projects to inculcate research orientation and practical awareness Advising to participate in group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills.
* They are encouraged to participate in science expos to design and execute working models to give shape to their ideas but not at the cost of higher university grades, they are eqally supported to get flying colours in University exams.

4) Journal Club -- Journal club activity started in academic year 2017-18. Under Journal club, Faculty members present Resarch paper or Artcile or Topic useful to all faculties.

* **Journal Club activities objectives are**

1. To promote Research Culture amongst Faculties.
2. Exchange Skills , Knowledge with Faculties.
3. To broaden knowledge base of all faculties.

File Description	Document
Link for Additional Information	[View Document](#)

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 0.6

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
03	00	00	00	00

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)
Any additional information	[View Document](#)
IQAC link	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: E. None of the above

File Description	Document
Details of Quality assurance initiatives of the institution	[View Document](#)
Any additional information	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

SWOC analysis is conducted periodically. Our Institute makes sure that the programs offered in the curriculum and outside the curriculum contribute to rural development, making students globally competent, inculcating a value system among them, and promoting the use of technology and quest for excellence. It calls for all-round development of the students enrolled in the various academic programs it offers. The major improvements took place in the following aspects

1) Council of Senior Scientists (CSS)

- A team of retired BARC and TIFR scientists from different background and specialization form our Council of Senior Scientists (CSS). The CSS visits MPCOE (from VPM Thane) as frequently as is mutually convenient and spend enough time in campus to engage with the students and faculty for expert talk, for guidance on minor and major projects of students, for consultancy to neighboring industries, for delivering lectures for children of Schools and Jr. Colleges of Chiplun and neighboring villages.

2) Helping school children acquire knowledge through Museum on Wheels (CHHATRAPATI SHIVAJI MAHARAJ VASTU SANGRAHALAYA)

- MPCOE has been actively supporting the arrival of 'Museum on Wheels' (from Mumbai) and stationing the vehicle in the college campus and then arranging school children to be brought from neighboring schools for viewing the museum. Wherever the schools are unable to arrange their buses, MPCOE has offered its buses. This idea has been very popular among school children and their teachers. This provides opportunity for students to see Indian Heritage and ancient Civilisation.
- The Museum on Wheels is a pioneering outreach initiative for the city of Mumbai, a Bus with travelling exhibitions on different themes, which change periodically. The Bus is designed to reach mainly schools, colleges, NGOs within the city of Mumbai and beyond, into the interiors of Maharashtra with an aim to –

1. Create an appreciation of heritage and culture
2. Establish a connection between heritage of the past and its relevance in present-day society and encourage hands-on participation of local communities with heritage and culture

- 'The Museum on Wheels' is a dedicated Museum bus carrying travelling exhibitions of the Museum to distant places in a customized air-conditioned bus. The bus is fully equipped with display cases for objects, interactive demo kits, art supplies, audio-visual equipment and digital media such as touch screens and digital tablets to set up exhibitions in semi urban and rural areas, aimed at providing information and insights into a wide range of subjects in a fun and interactive manner.

- The Museum will organise fun educational activities and workshops around the exhibition inside the Bus. There will be events that offer opportunities for students within the area to participate and showcase their talent.

3) Online Feedback System

- The IQAC regularly collects online feedback from students on teacher's performance and methodology of teaching. After receiving the data, IQAC analyses it online and interprets the same. On the basis of the drawn conclusions, it takes necessary action if it identifies any dissatisfaction from the students on any aspect of teacher efficiency. Accordingly, it submits the feedback reports to the Principal for further action. If any teachers require personal counseling, the Principal calls a meeting with the head of the department and the individual teacher and discusses the matter. In

addition to above, **On Line feedback is also collected from Students, Alumni & Teachers on Syallbus and Institute**

4) Language Lab

- Students in this college are mostly from village background so they lack in English communication. Language lab has been set up to facilitate such students for improvement in English communication. Besides that many activities are conducted for soft skills development**.**

5) Slow and Advanced learners mechanism

- The institute has started system for slow and advanced learners. Students enrolled in various disciplines are identified as slow and advanced learners based on their Internal assesment marks and marks in University exams. This helps to identify the slow learners and to design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and the advanced learners. The tutors of the respective classes conducts extra lectures and give additional assignments.

6) Journal Club

- This activity has been started from academic year 2017-18. Under this activity, faculties from various departments are encouraged to study various articles from wide range of publications and magazines (few of them are available in library). These articles along with basic credentials of that subject are then presented in journal club meetings. This activity is really becomming helpful for faculties and students also, especially, for final year students.

7) Memorandum of Understanding (MoU)

- The institute started forming MoUs with other institutes from academic year 2014-15. The first MoU was signed with College of Engineering, Pune where total 8 teachers were involved under the activity of PLC and Virtual Lab workshop. Currently there are total 5 MoUs active in the academic year 2018-19 with following Institutes/Industries.

1. Tata Power Skill Development Institute
2. DVP Infra PVT.LTD.
3. GB Tatyasaheb Khare Commerce, Parvatibai Gurupad Dhere Arts and Science College
4. Pethe Brake Motors PVT.LTD.
5. Excel Industries LTD. MIDC Lote Parshuram

8) Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

- The college started implementing this scheme of Central government from academic year 2016-17. Initially there were total three courses run by different departments.

1. Mason marbal granite and stone technician - Conducted by Civil Engineering department
2. Test and repair technician - Conducted by Electronics & Telecommunication Engineering department
3. IT coordinator in school - Conducted by Computer Engineering department

* In the academic year 2016-17, count reached to 6 as below

  1. Helper-construction laboratory field technician - Conducted by Civil Engineering department
  2. Lathe operator - Conducted by Mechanical Engineering department
  3. DTH set of box installation and service technician - Conducted by Electronics & Telecommunication Engineering department
  4. CCTV installation technician - Conducted by Electronics & Telecommunication Engineering department
  5. IT coordinator in school - Conducted by Computer Engineering department
  6. LED light repair technician - Conducted by Electronics & Telecommunication Engineering department

File Description	Document
Any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 1

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	01	0

File Description	Document
List of gender equity promotion programs organized by the institution	[View Document](#)
Any additional information	[View Document](#)

7.1.2

1. **Institution shows gender sensitivity in providing facilities such as:**
   1. **Safety and Security**
   2. **Counselling**
   3. **Common Room**

Response:

- The institute follows the co-education system and as a part of it, equal opportunities and benefits are provided to everyone irrespective of gender. Currently, the institute has 16% girl students and 16% female staff.
- There is a good representation of female members in various committees of students and faculty members along with male members. In all curricular, co-curricular and extra-curricular activities, equal participation of boys and girls is encouraged.
- All sports activities are conducted for girls and boys without any discrimination. In sports, each sports events winner and runner (boys and girls) award is given.
- In areas such as office, Students Facilitation Center, Store, and Canteen, there is a common counter encouraging gender equity.
- Equal opportunity is provided in training and placement activities by the Training and Placement Department without any gender bias. The institute also has an Internal Complaint Committee for both the genders.

There is a special complaint box (**Sakhi**) kept only for girls in the institute.

1. ????????**Safety and Security**

- **Security system:** The institute is well concerned about the safety of the students. Around four to five security guards are deputed at the main gate of the college. 24 x 7 security is provided at all the entry, exit and strategic points of the institute through 150+ CCTV surveillance.
- **ID cards are made mandatory:** It is mandatory for the faculty and students to wear Identity cards in the campus. ID cards are also compulsory during college events and examinations.

2. Counseling

The institute has a mentorship program. Being a small village and small Engineering college, teachers and students know each other very well. That helps in keeping track of each other. A group of students assigned to one faculty member. Mentoring and counseling are done by the faculty member. If additional help is needed, the students are advised to contact their Mentorship Coordinator, HoD, Faculty In-charge-Student Affairs or the Principal.

3. Common Room

The institute has a girls' common room with the following facilities.

Sr. No.	Items/Objects	Quantity
1	First Aid Box	1 Box(Dettol, Bandage, Ointment)
2	Tables	2
3	Chairs(Plastic)	12
4	Bed	2
5	Mirror	1
6	Double door wardrobe	1
7	Lights, Fans	Tubelights-20, Fans-10

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

1.Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 3.73

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 40

7.1.3.2 Total annual power requirement (in KWH)

Response: 1071

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 5.8

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 3.8

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 65.488

File Description	Document
Details of lighting power requirements met through LED bulbs	[View Document](#)

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Improper disposal of waste of various kinds causes serious hazard to health, economy and the environment.

The institute endeavors to manage its waste specifically as follows:

- **Solid Waste Management:**

Solid waste is collected from hostel rooms each morning by housekeeping staff in separate containers and assembled at the waste yard marked as Garbage Collection Pit at the extreme end of the campus. Separate garbage collection bins are kept for dry waste in laboratories, library, classrooms, etc.

- **Liquid waste management**

The sewage treatment plant for the entire campus of MPCOE which includes sewage from hostels, residential staff quarters, administrative buildings, academics building was designed and installed in

January 2013. It is in working condition since installation. It is based on the activated sludge process principle. The treated water from this plant is reused for gardening purpose.

The sewage treatment process involves:

1. Screening:

This is the first step in the treatment process in which floating matters are separated. In this screening chamber Bar screen of 10mm X 10mm grid is installed which separates floating or solid matters from the sewage.

2. Aeration Tank (MBBR):

After the screening sewage flows to equalization tank from where it is lifted to aeration tank by raw sewage lifting pump. The grid aeration system is used for the aeration. Two air blowers of 2.5 HP are used to supply compressed air to the aeration system.

3. Tube settler:

From the aeration tank sewage overflows to the settling tank where tube settler is installed to increase the settling capacity. Settled sewage in the settling tank is back fed to the MBBR tank to act as food for the microorganism and clear water from the tube settler overflows to filter feed tank.

4. Pressure sand filter and activated carbon filter:

There are two filters installed in our plant i.e. Pressure sand filter and activated carbon filter. Pressure sand filter removes traces of suspended particles present in the effluent. Activated carbon filter removes traces of organic material present in the effluent. It absorbs the traces of oils, detergents, and solvents.

5. Disinfection:

Disinfection system comprises of chlorine dosing pump and chlorine dosing tank. Disinfection ensures the removal of the harmful organism in the water.

Treated water is stored in the storage tank from where it is lifted to an overhead tank of MPCOE which has a separate compartment to store the treated water. Then it is supplied for the gardening purpose in the campus by gravity.

The solid waste obtained from the plant is used as manure for the plants in the campus.

- **E-Waste Management**

Our college has a **"Maintenance Room"** where all the maintenance of computers, tube lights & other electrical equipment is done. The useful material from the faulty equipment is utilized in repairing some other equipment as a part of the management of e-waste.

Cooling fan from the damaged CPUs is utilized for EPABX telephone system. The components from the chokes of tube lights are reused in the automatic street light system. Wires of the faulty tube lights are

utilized for making connections.

File Description	Document
Link for Additional Information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

- The village Velneshwar is situated in Kokan region that experiences moderate to heavy rainfall; thus creating a need for rainwater harvesting.
- The institute has constructed two wells, each having a storage capacity of approximately 30,000 litres, total collection capacity being approx. 60,000 litres.
- The rainwater is directly collected in the wells. The collected water is filtered and stored in an overhead tank (with capacity of 8 lakh litres). The filtered water is used for drinking purpose.
- Overhead tank has a channel back to the well in case of overflow of water in the tank.

Well 1 size: 70 feet depth and 30 feet diameter.

Well 2 size: 70 feet depth and 30 feet diameter.

Additionally, the institute has 3 Borewells in the campus to ensure sufficient water for consumption of the residents during the entire summer.

File Description	Document
Link for Additional Information	View Document

7.1.7 Green Practices
- **Students, staff using**
a)   **Bicycles**
b)   **Public Transport**
c)   **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

The institute is conscious of the environment. The institute follows practices that lead to more environment-friendly and ecologically responsible decisions and lifestyles, which can help protect the environment and sustain its natural resources for current and future generations. Since its inception in 2012, the institute has set up and implements green practices :

1. Bicycles:

The college staff uses the bicycle for traveling around 5-10km daily (from home to college).

2. Public Transport :

The college has tied up with Renuka Transport Limited. As per this contract, five buses are run by Renuka for students, faculty and staff on different routes for to and fro transport. This helps in saving the environment and leads to a safe and secure life.

Public transport facility by MSRTC between Guhagar and MPCOE is also available. Separate parking lots for vehicles are available inside the campus.

3. Tree Plantation:

Tree-planting is the process of transplanting tree seedlings, generally for forestry, land reclamation, or landscaping purpose. The college has planted trees to make the campus more environments friendly. The college conducts many tree plantation programs to encourage students and staff for not an only plantation of the trees but also nourish them to maintain environmental balance.

4. Paperless 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 faculty member has been provided an email ID on the institute's server (www.vpmmpcoe.org) for sharing documents electronically.

 The institute has registered to various portals to provide learning resources for the students and faculty members like online journals, Academic calendar, D-space, E-Library, Guest Lectures, Library OPAC, Online Notice Board, NPTEL Videos, and V-Lab, etc.

File Description	Document
Link for Additional Information	[View Document](#)

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.54

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
4.328	0	0	0	0

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	[View Document](#)

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	[View Document](#)

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 3

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	1	0	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)
Any additional information	[View Document](#)

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 5

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

File Description	Document
Report of the event	[View Document](#)
Any additional information	[View Document](#)

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: No

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	[View Document](#)

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 17

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	5	1	1

File Description	Document
List of activities conducted for promotion of universal values	[View Document](#)

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The institute organizes various National Festivals and birth / death anniversaries of the great Indian personalities every year as mentioned below:

1. Republic Day and Independence Day:- Every year institute celebrates Independence Day and Republic day with great enthusiasm and all teaching as well as non-teaching staff members and students are invited for the function. Flag hoisting is done at the hands of Principal followed by patriotic songs, speeches by Principal and voluntary student members. Sweets are distributed to all staff and students and Blood donation camps are also arranged on these occasions.

2. Teachers Day: - Teachers day is celebrated on 5th September every year in the memory of the birth anniversary of Dr. Sarvepalli Radhakhrishnan, a great teacher and a strong believer of education. Students organize this event and interact with their faculty members (Gurus) in an informal way by conducting a few games/competitions, singing songs with teachers and giving small gifts as a token of appreciation to the teachers. Non-teaching staff members also participate in this event enthusiastically.

3. Engineers Day: - Engineers day is celebrated on 15th September every year in the honor of Bharat Ratna Sir M. Visvesvaraya, an eminent Engineer. The institute organizes Engineering Today and talks are given by eminent speakers regarding great Engineering inventions.

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

- The institution maintains transparency in its financial functions by providing institute level budget at the beginning of the academic year. Funds are allocated for statutory compliances such as Provident Fund contributions, Gratuity contributions, Electricity bills, AICTE/Affiliating

University approvals, Committee visits etc.

- Salaries are paid to all the staff members regularly every month. Faculty members are encouraged for publishing and presenting their research papers in reputed conferences and journals, attending seminars/workshops/FDP programs to enrich their academic credentials.
- College level scholarships are given to students every year who excel in their academic as well as co-curricular and extra-curricular activities.
- At the beginning of each academic year, institute level calendar is prepared and all the academic as well as non-academic activities are planned for the complete year. From 2019, IQAC as well as CDC committee meetings are held four times in a year and planning of all activities is done for the complete academic year. Based on the institute level Calendar, departments plans Guest lectures, Faculty Development Programs (FDPs), Short Term Training Programs (STTPs), Industrial visits, Augmentation courses, Workshop /Seminar/Conferences etc.
- Academic calendar is prepared and displayed before commencement of the term. The academic transparency is maintained through intranet and notice board. Teaching plans, PPTs, supporting videos are uploaded on DSpace software by faculty members so that students can access the same from anywhere, anytime.
- The procedure for calculation of Term work marks and the final term work marks are displayed on the notice boards. Parents meetings are conducted once in a semester. Letters of attendance and internal assessment marks are sent to parents of defaulter students so that they are aware of their wards academic progress as well as attendance. Institute level holidays are planned and declared at the beginning of the year so that students and staff can plan accordingly.
- Various committees such as Grievance Redressal Committee, IQAC, College Development Committee (CDC), Anti-ragging, Vishakha committee which include teaching as well as non-teaching staff members are constituted and they function in a complete transparent manner.
- Annual appraisals of faculty and staff members are done in a transparent manner and the individual concerns are addressed by Management. Also meetings are conducted regularly and the major events which took place are updated to the entire team in a transparent manner.

File Description	Document
Any additional information	View Document

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice I

1) Title: Motivating Students and Faculty Members in Achieving Academic and Professional Excellence.

2) Objectives:

1. To inculcate healthy academic competition among students through awards and scholarships.

2. To improve academic performance and focus on the all-round development of students.

3. To retain and develop existing faculty members to the level of excellence.

3) The Context:

Students admitted in this institute are mostly from the rural area of this region. Hence, they require more exposure to their academic and professional excellence. Initially, the institute faced the problem of the poor percentage of the examination result. Hence, it was necessary to take initiatives and motivate the students to excel in academics, co-curricular and extra-curricular activities.

The quality of teaching is a fundamental requirement for generating intellectual capital which in turn depends upon the qualifications and professional skills of the faculty members. Therefore, the institute has formulated and implemented a policy for qualification up-gradation and value addition of the faculty members.

4) The Practice:

a) The institute has initiated awards to motivate the students and create a healthy competitive environment among them. The institute also offers scholarships to economically weaker but academically bright students. The awards and scholarships are as under.

1. **Late Shri Narayan Shriram Kayal Merit Prize -** A cash prize of Rs. 10,000/- is awarded to the top scorer student at FE examination
2. **Late Shri Madhav Ganesh Dixit - A** cash prize of Rs. 10,000/- is awarded to the best outstanding student of the year.
3. **Late Radhabai & Damodhar Keshav Gokhale - A Cash** prize of Rs. 10,000/- is awarded to the highest C.G.P.I.   Scoring Girl student of the year.

b) The institute emphasizes the holistic development of the students. Apart from the academics, the students organize various technical and social events under student associations which help to hone managerial skills, teamwork, leadership and sensitivity towards social causes. The students are encouraged to participate in inter-collegiate (state and national level) project competitions and technical paper presentations. Saptak, the annual cultural event, is organized to provide a platform for the enhancement and development of cultural talents of students.

The institute has a Sports Cell which holds inter-department sports competitions (indoor and outdoor). It promotes the spirit of sportsmanship, competitiveness among students besides leadership and team skills. Many trophies, medals are awarded to encourage the students to participate in the competitions.

c) It is a difficult task to attract highly qualified faculty members at the small township like Velneshwar. However, the institute has taken initiative in this regard under the Faculty Development Program. The faculty members are encouraged to pursue higher education like M. Tech. and Ph. D. in reputed institutes like VTU, ICT Mumbai and Shivaji University Kolhapur. Under this policy, the faculty members are also encouraged for participation in winter schools, faculty development programs, and orientation programs.

In addition, the faculty members are encouraged to attend and present research papers in conferences, workshops, symposia etc. It helps the faculty members to update their knowledge. Further to percolate research at the student level, the institute started project-based learning where the student will work on mini and major projects from second to last year. They are also motivated to publish their work in UGC listed journals and conferences. The institute encourages faculty members to undergo online courses conducted by NPTEL.

d) The institute, in collaboration with IIT Bombay, has set up a remote center for conduction of various Faculty Development Programs. The institute has also started Virtual Lab in Collaboration with COEP, under which the students get training and certification at free of cost.

5) Evidence of the Success:

The practice of awarding cash prize and scholarships along with the guidance has boosted the confidence of the students and has a great positive impact in motivating the students for academic excellence. This is revealed in the percentage results. In 2013, the result of First Year Engineering for the first batch was 2% and improvement in percentage result was a big challenge. However, through continuous and rigorous efforts taken by the faculty members and motivating the students by awarding cash prizes and scholarships, the average result has improved to 40% in the last couple of years.
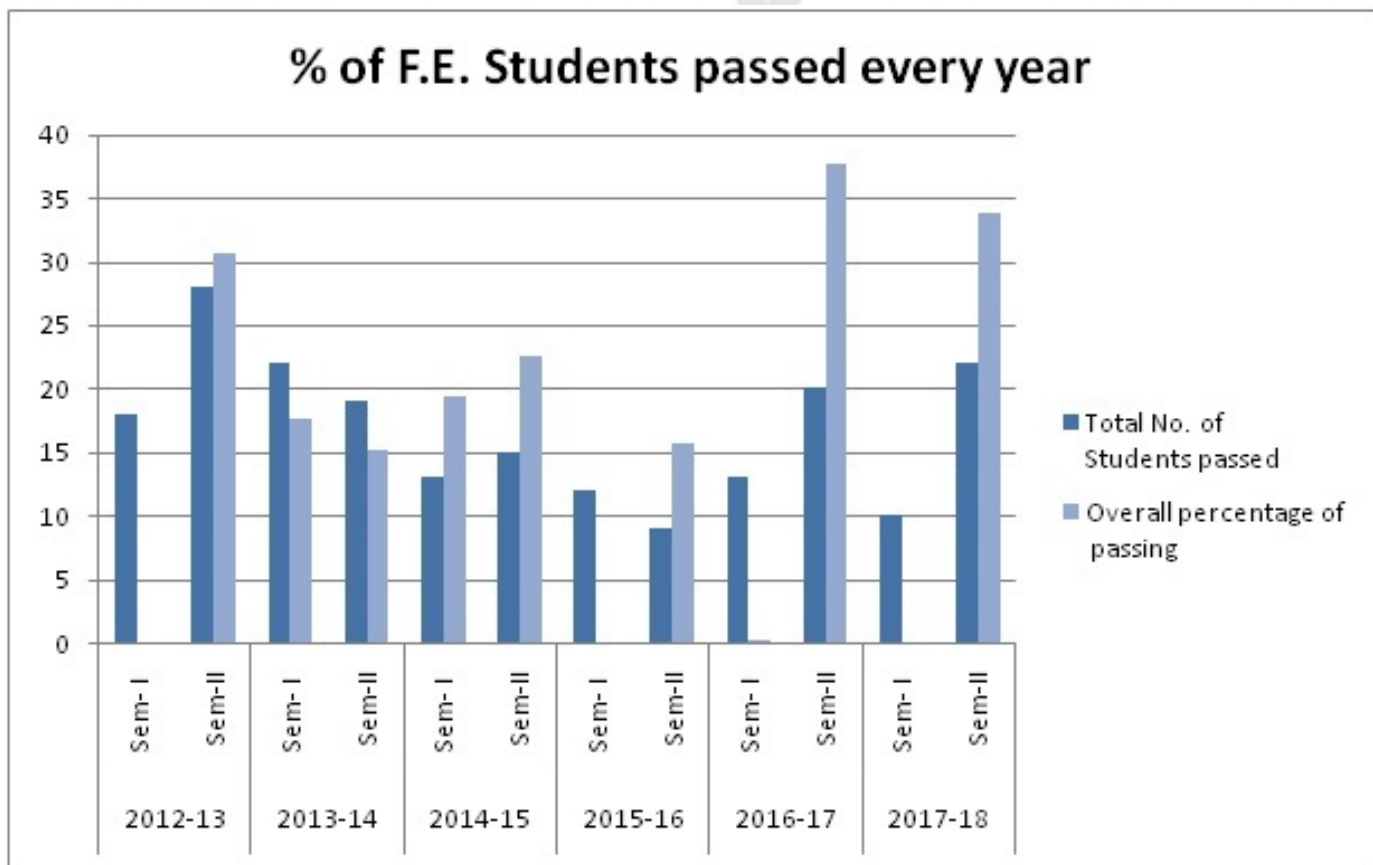

Statistics indicating growth in the passing percentage First Year Engineering

Year	2013-14	2014-15	2015-16	2016-17	2017-18
No. of Teachers attending professional	7	10	19	21	24

development programs						

Number of Teachers to attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development various workshop.
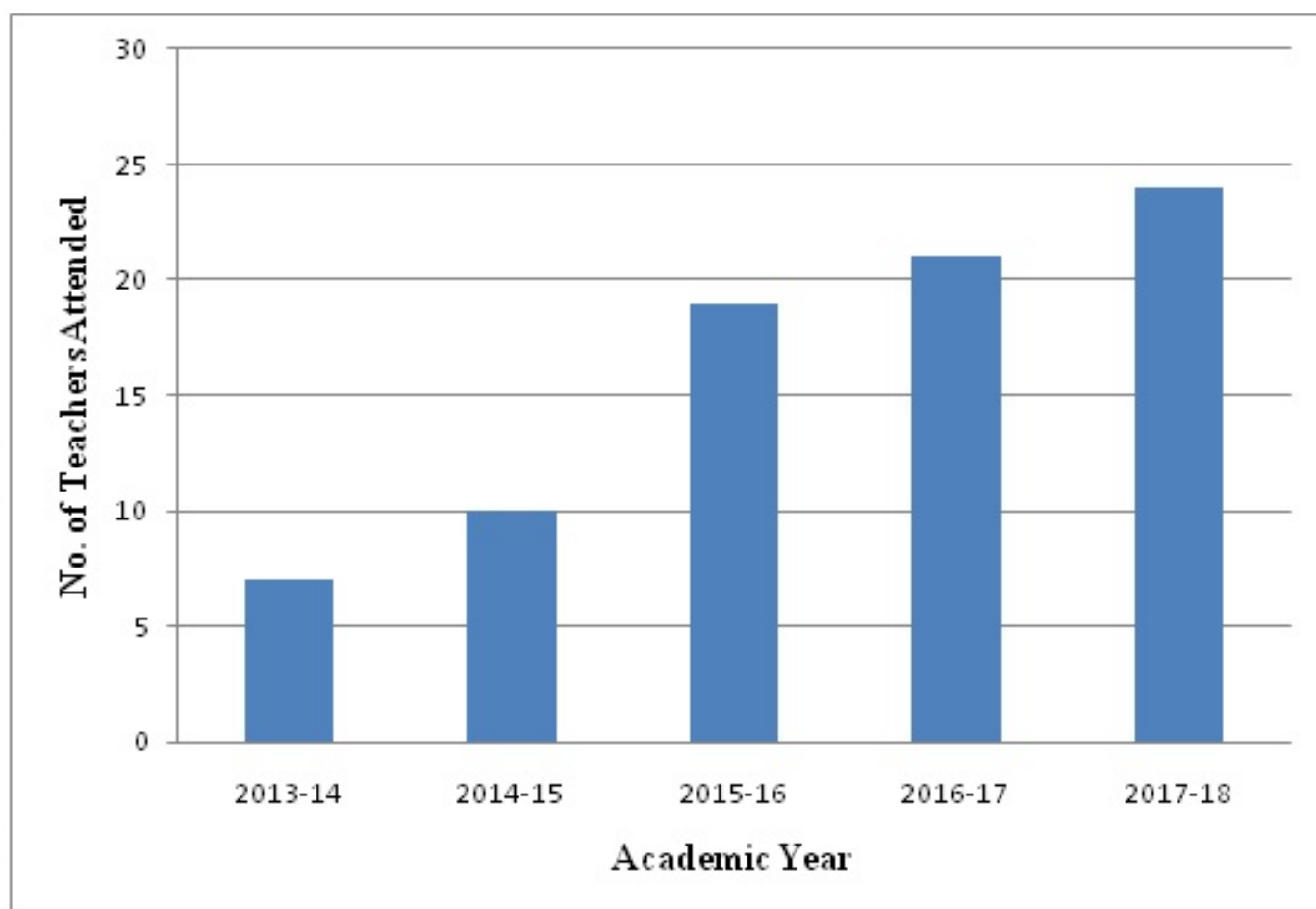
Current status of faculty qualification –

No. of faculty members obtained Master's Degree	No. of faculty members obtained Ph.D	No. of faculty members pursuing Master's Degree	No. of faculty members pursuing Ph.D
36	03	08	05

Best Practice II

1. Title of the Practice: Student Development and Green Initiative.

2. Objectives:

1. To provide Project Guidance to B.E Students, to inculcate and promote research culture amongst Students.
2. An objective of the Digital India Movement is connecting rural areas with high-speed Internet

networks and improving digital literacy.

3. No greenhouse gas emissions are released into the atmosphere when you use solar panels to create electricity.

4. To provide low Operational cost compared to other forms of power generation.

3) The Context:

The student's projects are guided by retired BARC and TIFR scientists. Digital India is a campaign launched by the Government of India to ensure the Government's services are made available to citizens electronically by improved online infrastructure.

VPM's Maharshi Parshuram College of Engineering, Velneshwar is promoting this movement in nearby areas of college which is Rural Konkan. Inspite of Challenges like Internet connectivity in Rural Konkan, VPM's Maharshi Parshuram College of Engineering, Velneshwar is persistent with its approach to reach the shop, Pharmacy Shops to start using online payment rather than CASH.

Solar Power - Fuel isn't required, and this means that solar power can create large amounts of electricity without the uncertainty and expense of securing a fuel supply.

4) The Practice:

Some of the practices that place MPCOE in a class of its own are :

1. Council of Senior Scientists (CSS):

A team of retired BARC and TIFR scientists from different background and specialization form our Council of Senior Scientists (CSS). The CSS visits MPCOE (from VPM Thane) as frequently as is mutually convenient and spend enough time in campus to engage with the students and faculty for expert talk, for guidance on minor and major projects of students, for consultancy to neighboring industries, for delivering lectures for children of Schools and Jr. Colleges of Chiplun and neighboring villages.

2. Extension of Digital India Movement:

The teachers of MPCOE have conducted surveys in nearby villages of Velneshwar and Palshet to promote Cashless transaction. The finding of a survey conducted in these villages by a team of teachers has been published in an Indian Journal.

3. Promoting the use of Solar Energy:

MPCOE has taken efforts to promote the significance of Solar Energy among the locals by conducting awareness sessions and, in some cases, helping the villages in setting up solar powered implements/instruments.

4. Use of Solar Energy for water heating:

MPCOE has installed solar water heaters on its hostels and residential buildings for harnessing the freely available solar energy for heating water.

5. **Use of Solar Energy for generating Electricity:**

 MPCOE has installed Solar panels on the roof of Shripati building and generates up to 20 KVA of electricity which is utilized in academic buildings. Institute had solar laboratory till 2017.

6. **Sewage Treatment Plant :**

Demonstrating our environment-friendly attitude, MPCOE has set up a Sewage Treatment Plant in the campus to process campus sewage and recycle the used water for watering the plantations.

7. **Independent cabins to teachers:**

Every teacher of MPCOE gets an independent and adequately furnished cabin of about 25 square feet to enable him/her to carry out academic and research related work in a peaceful ambiance.

8. **Assistance in starting Science stream in Junior college:**

MPCOE has provided initial push, motivation, and subsequent assistance to a Jr. College in Palshet to open a Science stream for 11th and 12th standard students. When the Jr. College faced a shortage of teachers, our teachers were sent for teaching some subjects.

9. **Helping school children acquire knowledge through Museum on Wheels:**

MPCOE has been actively supporting the arrival of 'Museum on Wheels' (from Mumbai) and stationing the vehicle in the college campus and then arranging school children to be brought from neighboring schools for viewing the museum. Wherever the schools are unable to arrange their buses, MPCOE has offered its buses. This idea has been very popular among school children and their teachers.

File Description	Document
Link for Additional Information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

- VPM's Maharshi Parshuram College of Engineering (MPCOE), Velneshwar has set a high level benchmark in quality technical education in a remote and rural village of Konkan region of Maharashtra.
- Besides offering Bachelor of Engineering courses in approved streams (branches), MPCOE has been actively involved in the development of local and neighboring societies.

- To educate the villagers of Velneshwar about Government's Digitization efforts towards Cashless transaction and to strengthen this movement, MPCOE has formed a core team of teaching and supporting staff.
- This activity has started in January 2017. Under this activity, MPCOE team had met the Sarpanch (village head), senior villagers, shop keepers, the fishermen, and all other stakeholders and has done the considerable groundwork.
- MPCOE has started similar exercise in another important nearby village, Palshet, which has a bank and a couple of ATMs.
- This study is an attempt to document ground level challenges faced by MPCOE team during the awareness and implementation stages of cashless transactions in nearby villages Velneshwar and Palshet.
- The team has primarily confined its survey and study activities in the villages of Velneshwar and Palshet. Information has been collected with the help of structured questionnaires and analysis has been carried out using a sample percentage method.

Major challenges that tend to slow down the implementation of the cashless transaction are:

1. Illiteracy among the locals,

2. The tendency towards adherence to traditions and customs,

3. Lack of awareness,

4. Majority of the population belonging to Low Income Group,

5. Reluctance to come out of years of neglect and apathy,

6. Political exploitation,

7. An attitude of people and

8. Lack of infrastructure.

- If we tackle the challenges effectively then even in rural areas like Velneshwar and Palshet, the cashless transaction can definitely be implemented successfully. Velneshwar and Palshet are tourist places along the coastal Konkan region of Maharashtra. Velneshwar is about 60 km from the nearest railway station, "Chiplun", which is on Konkan Railway.
- Mumbai-Goa highway passes through Chiplun. Majority of Velneshwar's local's are fishermen or daily wage workers.

While implementing the Cashless Project in Velneshwar and Palshet villages, the team has adopted the following

steps:

1. Primary data collection

2. Challenges in implementing Cashless project

3. Data Analysis & Interpretation

4. Plan of Action.

- On the basis of the findings of a team of faculty and staff who carried out awareness workshops, door-to-door interaction, and demonstration of various Apps and media to villagers of Velneshwar and Palshet of Konkan region of Maharashtra, it is concluded that, while Government might be right in desiring Cashless transactions by its citizens, a lot of groundwork needs to done first to implement its ambitious plans.
- Even though the findings reported in this study confine to only two villages of Guhagar taluka of Ratnagiri district, the challenges and ground realities are similar for any village of Konkan and Maharashtra.
- The efforts should continue for many years without a break and relevant support should continue to be provided by the Government's machinery.
- We have published paper Challenges of implementing **"Cashless"** in rural India – Konkan Region in Indian Journal of Economics and Development in the month of January 2019.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

5. CONCLUSION

Additional Information :

Each Department houses department office, independent cabins of faculty members, laboratories, and a seminar hall. The Central library is more than adequately equipped with 11000+ curriculum books, National and International journals / e-journals, NPTEL collection, and DSpace which contains videos, lectures, etc for students' use. The library uses KOHA and OPAC software to facilitate automation and transparency.

With AICTE approving e-books, we are also procuring books under this category..

Five hostel blocks accommodate 300 students (boys and girls). Each double-seater room has attached toilet-bathroom and a balcony. Some rooms face the Arabian sea which is just across the road.

- Campus has borewells to store rain water and uses them to meet daily needs of the campus all-through the year. A central overhead water tank is designed to store and supply water for all the users of campus.
- For uninterrupted power supply the institute has a Generator station 320 KVA and a solar-based 40 KVA set up.
- **Generator**
- Kirloskar Green Generator manufactured by KALA GENSET PVT LTD.
- The generator has ratings of 320 KVA.
- Maximum demand of MPCOE campus is 250 KVA and has never exceeded 90 KVA.
- The generator is capable of meeting all the load of campus in the absence of MSEB supply.
- **Sewage Treatment Plant (STP)**
- STP treats 70% of total per day water consumption. The sewage treatment plant for the entire campus of MPCOE collects sewage from hostels, residential staff quarters, administrative buildings, and academic buildings. It was designed and installed in Jan 2013. It is in working condition since installation. It is based on the Activated Sludge Process principle. The treated water from this plant is reused for gardening.
- Following are the design parameters of the STP.
- Flow : 200 m3/day
- BOD : 30 mg/L
- TSS : < 50 mg/L
- pH: 7.0 to 8.0
- Installed sewage treatment plant can treat sewage upto 200 m3/day but at present maximum inflow is 40 m3/day during peak period because all hostels and other amenities are not fully utilized.

Concluding Remarks :

In a short span of 7 years, VPM's Maharshi Parshuram College of Engineering, Velneshwar, has carved a niche for itself in the Konkan region of Maharashtra. The management of VPM has invested adequate funds in building an institute that boasts of excellent infrastructure, plenty of amenities, and compliance to norms of AICTE and University of Mumbai.

Besides imparting technical education as per the curriculum of University of Mumbai, to which MPCOE is affiliated, MPCOE has also been grabbing every opportunity that came its way in the last 7 years. These

include -

- Training the school teachers in the vicinity for computer literacy,
- Launching of Pradhan Mantri Kaushal Vikas Yojana in 2016 - 17 and running it successfully with increased strength in 2017 - 18 and 2018 - 19,
- Becoming a part of Unnat Bharat Abhiyan of Government of India in 2018 - 19 and identifying 5 villages for carrying out preliminary study to understand their main problems,
- Becoming a nodal centre for "Virtual Labs" initiative of College of Engineering, Pune, since 2015, and has given exposure to about 200 higher secondary students of Science about different experiments under it. Teachers have also been given training and exposure to Virtual labs.
- Being recognized as a Remote centre of IIT Bombay for conducting short term programs / courses for the teaching fraternity. Since its formation, the Remote centre at MPCOE has arranged training for its faculty and staff for organizing sessions on KOHA (library application) and MOODLE, and on Scilab.

Training and Placement Cell of MPCOE attempts to groom students about personality aspects and endeavours to impart relevant training about soft skills to students to face interview, group discussions, attending campus pool, and helps in arranging Industrial visits and Internships.

MPCOE has been successful in building rapport with reputed organizations such as Konkan Railway, Finolex Industries, Tata Power Skill Development Institute, and Walawalkar hospital, and in arranging internships for eligible students.

The final year result of past 3 years' batches has been between 80% and 90% and that is a commendable feat given the remoteness of college and quality of intake.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.1.2	Number of certificate/diploma program introduced during the last five years **1.1.2.1. Number of certificate/diploma programs introduced year-wise during the last five years** Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
1	0	0	0	0 | Answer After DVV Verification : | 2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
0	0	0	0	0	 Remark : As per the HEI the program conducted in Academic Year 2017-18 was AutoCAD with Target audience of Civil Engineering students. The HEI has reconcile and confirmed it to be Add-on course to enhance knowledge and skills about AutoCAD. It was a college level certificate program and in considered in 1.3.2
1.1.3	Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years 1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
1	2	0	1	0 | Answer After DVV Verification : | 2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
00	00	0	00	0	
1.2.1	Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years 1.2.1.1. How many new courses are introduced within the last five years Answer before DVV Verification : 21 Answer after DVV Verification: 249
1.2.3	Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on

programs as against the total number of students during the last five years

1.2.3.1. Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
539	668	543	410	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	36	00	0

Remark : Only 3D Studio Max has been of duration of one week and could be 30 hrs if minimum of 06 hrs per day has been conducted. All other courses are 01/02 days and not eligible as Add on courses.

1.3.3	Percentage of students undertaking field projects / internships
	1.3.3.1. Number of students undertaking field projects or internships
	Answer before DVV Verification : 27
	Answer after DVV Verification: 26
2.1.2	Average Enrollment percentage

(Average of last five years)

2.1.2.1. Number of students admitted year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
67	53	58	67	124

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
145	142	134	151	131

2.1.2.2. Number of sanctioned seats year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
300	300	360	360	360

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14

360	372	432	432	432

Remark : The HEI has claimed to have filled 20% of the sanctioned seats in second year under LEET. This enhances the sanctioned intake by 20% of the sanctioned seats. Admitted students as per the HEI.

2.1.3	Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years 2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>39</td><td>29</td><td>45</td><td>30</td><td>44</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>64</td><td>63</td><td>52</td><td>76</td><td>55</td></tr></table> Remark : As per the HEI data attached with the Metric in response.
2.3.2	Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. 2.3.2.1. Number of teachers using ICT Answer before DVV Verification : 51 Answer after DVV Verification: 51
2.3.3	Ratio of students to mentor for academic and stress related issues 2.3.3.1. Number of mentors Answer before DVV Verification : 52 Answer after DVV Verification: 52
2.4.3	Teaching experience per full time teacher in number of years 2.4.3.1. Total experience of full-time teachers Answer before DVV Verification : 293 years Answer after DVV Verification: 267 years
2.4.4	Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years 2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
6	3	0	1	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	0	00	0

3.2.2	Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

3.2.2.1. Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
11	15	13	09	00

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	00

3.3.3	Number of research papers per teacher in the Journals notified on UGC website during the last five years

3.3.3.1. Number of research papers in the Journals notified on UGC website during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
03	01	03	07	08

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
03	02	03	10	04

3.3.4	Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

3.3.4.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
07	04	04	01	00

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
02	04	02	01	00

Remark : The HEI has claimed ISSN 2278-0181 and 0974-0678 (twice) which are not valid ISSN. As per the HEI data attached with the Metric in response.

3.4.2	Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
00	02	00	00	00

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

Remark : The HEI has provided Blood Donation certificate from a private organization and not awards and recognition received for extension activities from Government /recognised bodies. Only a trophy for Beach cleaning without the claimed Maharashtra Govt Maritime Board letter of recognition/ appreciation does not qualify as an award.

3.5.1	Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
33	11	17	05	02

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
19	08	14	02	02

3.5.2	Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered) 3.5.2.1. Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered) Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
00	01	03	01	00 | Answer After DVV Verification : | 2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
00	01	02	00	00	 Remark : Only MoU with COPE (Dt 13 Jan 2016 for 03 years), IPE dated 02 Jan 2016 for 05 years are eligible. The MOU with SIT if not attached. MoU with BKL Walawalkar hospital dated 04 Feb 2017 is for 02 years only.
4.1.3	Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc 4.1.3.1. Number of classrooms and seminar halls with ICT facilities Answer before DVV Verification : 10 Answer after DVV Verification: 02 Remark : As per the HEI data attached with the Metric in response.
4.1.4	Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years. 4.1.4.1. Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs) Answer before DVV Verification: 	2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
130.35	308.00	708.00	990.00	902.29 | Answer After DVV Verification : | 2017-18	2016-17	2015-16	2014-15	2013-14
---	---	---	---	---
2.15	33.05	153.11	341.56	347.95	
4.2.4	Average annual expenditure for purchase of books and journals during the last five years (INR in

Lakhs)

4.2.4.1. Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1.58	7.73	17.03	7.95	3.78

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2.01	7.73	17.03	7.96	3.78

| 4.2.5 | Availability of remote access to e-resources of the library

Answer before DVV Verification : Yes
Answer After DVV Verification: No
Remark : As per the HEI the library resources are available on-campus only and not remotely from anywhere outside. |
|---|---|
| 4.2.6 | Percentage per day usage of library by teachers and students

4.2.6.1. Average number of teachers and students using library per day over last one year
Answer before DVV Verification : 79
Answer after DVV Verification: 13 |
| 4.3.3 | Available bandwidth of internet connection in the Institution (Lease line)

Answer before DVV Verification : 5-20 MBPS
Answer After DVV Verification: 20-35 MBPS
Remark : As per the attached documents the lease line has been upgraded to 34 Mbps from 2016-17 onwards. |
| 4.3.4 | Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Answer before DVV Verification : Yes
Answer After DVV Verification: No
Remark : The HEI has not provided list of the equipment. The HEI has included sideways projection in classrooms. There is no photograph which exhibits recording equipment except the seminar hall with a simple video camera. |
| 4.4.1 | Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support |

facilities excluding salary component year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
159.65	201.30	322.71	462.58	449.76

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
156.62	165.11	158.89	116.89	98.56

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations

2. Career counselling

3. Soft skill development

4. Remedial coaching

5. Language lab

6. Bridge courses

7. Yoga and meditation

8. Personal Counselling

Answer before DVV Verification : B. Any 6 of the above
Answer After DVV Verification: B. Any 6 of the above

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

5.1.4.1. Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
635	291	578	85	124

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
135	191	118	00	00

5.3.3	Average number of sports and cultural activities/ competitions organised at the institution level per year

5.3.3.1. Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
31	36	21	8	13

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	7	8	4

Remark : The HEI must consider events and not activities. Sports day or cultural day is ONE event comprising of various activities. As per the report attached and the gallery on the website the HEI has sports day SAPTAK every year. All Athletics are covered as one. Similarly dance/singing is one, while painting/Rangoli/ Cartooning/Mehdi is 01 and Drama/ Skit is 01. Cricket and Kabaddi are considered.

6.2.3	Implementation of e-governance in areas of operation

1. Planning and Development
2. Administration
3. Finance and Accounts
4. Student Admission and Support
5. Examination

Answer before DVV Verification : A. All 5 of the above
Answer After DVV Verification: A. All 5 of the above

6.3.2	Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
19	15	4	4	5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
09	01	02	00	00

6.3.3	Average number of professional development /administrative training programs organized by the

institution for teaching and non teaching staff during the last five years

6.3.3.1. Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	1	4	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
02	1	1	03	2

| 6.3.4 | Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

6.3.4.1. Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
24	21	19	10	7

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
23	21	13	09	03

Remark : As per the HEI data attached with the Metric in response and the certificates of the FDP's attached with the response. |

| 7.1.1 | Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14

0	0	0	01	0

Remark : The Police Mitra App is a general purpose App equally applicable to all and is for safety of public. It applies to children, Sr citizens, women, traffic etc. Explanation is for making people aware and not for gender equity promotion. Program of 23 Aug 2014 is considered. The HEI contemplation that Even for NSS camps that are held every year outside the college in a nearby village, boys and girls take part enthusiastically and engage in different chores such as cleaning of village streets, and organize short programmes for locals. In support of our claim, sample photographs of students (boys and girls) participating in NSS camp, Annual Sports and Cultural event SAPTAK, and academic projects is the action on part of the HEI and not programs specifically organized by the institution for gender equity promotion.

7.1.9	Differently abled (Divyangjan) Friendliness Resources available in the institution: 1. Physical facilities 2. Provision for lift 3. Ramp / Rails 4. Braille Software/facilities 5. Rest Rooms 6. Scribes for examination 7. Special skill development for differently abled students 8. Any other similar facility (Specify) Answer before DVV Verification : B. At least 6 of the above Answer After DVV Verification: B. At least 6 of the above

7.1.10	Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	1	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	1	0	1

Remark : The HEI has taken up training of the local rural teachers for use of Akaash and imparting skills to the youth training them as technicians. Beach cleaning has also been considered in 2015-16.

7.1.11	Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere) 7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

7.1.12	Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff Answer before DVV Verification : Yes Answer After DVV Verification: No Remark : The link opens the student prospectus of the college and NOT Code of Conduct for Students, Teachers, Management Principal or the other staff of the college. The HEI was advised to make its own Code of Conduct signed by the principal as a policy document. the Annual hand book suggested was not the college Prospectus but a hand book of Codes.
7.1.17	Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years 7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	5	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	5	1	1

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of courses offered by the institution across all programs during the last five years Answer before DVV Verification : 335 Answer after DVV Verification : 250
2.3	Number of outgoing / final year students year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
203	227	153	1	1

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
183	227	153	1	1

3.1	Number of full time teachers year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
63	74	60	60	40

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
62	73	59	60	40

4.3	Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
181	530	1062	1159	1789

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
160.35	201.96	323.66	463.14	450.27