SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY

AT AND POST. AMBAV (DEVRUKH), DIST-RATNAGIRI
415804
www.rmcet.com

SSR SUBMITTED DATE: 09-11-2022

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

November 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Prabodhan Shikshan Prasarak Sanstha is a registered Public Charitable Trust registered under the Public Trust act 1950 (Regn. No. E-697 Ratnagiri, dated 7th June 1995). The Trust has been carrying on its activities for last two decades mainly in the field of education. It is the able chairmanship of Hon. Shri. Ravindraji Mane (Former Minister of State, Government of Maharashtra) who laid down the foundation stone of Rajendra Mane College of Engineering and Technology at Ambav (Devrukh) in 1998. The college is approved by AICTE, New Delhi, recognized by Directorate of Technical Education, Maharashtra and affiliated to University of Mumbai. RMCET is one of the premier colleges which has created its niche in Konkan region. The 31.15 acres area of the college campus is situated at Ambav (Devrukh), Ratnagiri district surrounded by lush green hills of Sahyadri (Western Ghat) ranges and is a temple for technical education.

At present, the college conducts three UG programmes in Automobile, Computer, and Mechanical Engineering and one PG programme in MMS. The vision of the college is to empower the rural youth for better employment by providing engineering and management education. The college has qualified and dedicated faculty who are committed to impart the best kind of Technical and Management Education. This college has earned the reputation of being one of the best colleges in Konkan Region. The state-of-the art infrastructure includes spacious and well equipped administrative building, classrooms with audio-visual aids, central as well as departmental libraries, adequate laboratories, workshop and 24x7 Wi-Fi enabled campus and other amenities.

Vision

Vision Statement:

To empower the rural youth for better employment by providing engineering and management education.

Mission

Mission Statements:

- To prepare all students for successful career, based on Strong Moral and Ethical Foundation.
- To produce quality engineers by providing state of the art engineering education
- To impart personality development skills to students that will help them to succeed.
- To encourage and facilitate faculty and students to work together across discipline boundaries.
- To bring up mutually beneficial partnerships with Alumni, Industry and Institutes.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

S1. Dynamic and dedicated faculty with diversified specializations.

S2. Supportive Management.

S3. Well-developed infrastructure.

S4. Eco friendly campus and positive academic ambience.

S5. Effective teaching learning process with personal attention to students and monthly feedback to parents.

S6. Active Training & Placement Cell and Entrepreneurship Development Cell.

S7. Dispensary with Consulting Doctor and 24x7 Ambulance facility.

S8. Fee concession to budding and needy students.

Institutional Weakness

W1. Geographical location of college and intake quality.

W2. Disproportionate cadre ratio.

W3. R & D and Consultancy activities.

W4. Interaction with premier institutes.

W5. Representation of faculty in university governance.

Institutional Opportunity

O1. Permanent affiliation and accreditation of all the departments.

O2. To start PG courses in engineering disciplines.

O3. Starting of foreign language training program.

O4. To become solution provider to the society.

Institutional Challenge

C1. Motivating students towards engineering education.

C2. Employability of students.

C3. Developing research aptitude among faculty.

C4. Attracting senior faculty.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college is affiliated to University of Mumbai and it follows the structure and syllabus designed by the affiliating University. Effective implementation of structure and timely completion of syllabus is the prime objective of the college. College also follows guidelines given by UGC/AICTE/DTE. Effective implementation of the curriculum is done through outcome based teaching learning process and transparent mechanism. There is a continuous monitoring of students' progress and the same is communicated to their parents.

The college provides opportunities for better exposure to the students by conducting field trips, seminars for students and also conducts technical courses by inviting resource persons from various institutes, inside and outside the state. It aims to sensitize students with issues related to gender, environment and sustainability, human values and professional ethics, creative and divergent skills required in the contemporary context. Certificate courses, add-on courses imparting multi-skills are designed to enhance employability and also provide experiential learning.

The college is collecting feedback from various stakeholders like students, alumni, employers and teachers and trying to collect the valuable suggestions to improve accordingly.

Teaching-learning and Evaluation

Teaching, learning and evaluation plays very crucial role for growth of institution. The admission process is transparent and managed by admission cell which is responsible for designing admission forms and prospectus according to the guidelines of the University of Mumbai and the Government of Maharashtra. Remedial classes are conducted for slow learners. Bridge courses are organized for the first year students. The advanced learners are encouraged to participate in various competitions and are provided with guidance for Research Projects. For every student mentoring is done to solve their academic and stress related issues. The institute maintains the requisite teacher-student ratio. Innovative processes in Teaching and Learning like ICT tools and modern educational techniques are adopted by the faculty to make the process of teaching learning interesting. The institution has a robust and transparent evaluation system as evidenced by the functioning of the examination cell, the evaluation mechanism, the grievance redressal mechanism etc. A set of PEOs, POs and PSOs are formulated for every programme based on the 'outcome based education' approach. Course objectives and outcomes, are prepared for each course following the appropriate levels of Blooms taxonomy. Systematic procedures have also been developed for assessing the attainment of COs, POs, and PSOs.

Research, Innovations and Extension

The college has a separate Research and Development Cell, which is responsible for addressing and monitoring research related activities in the college such as promoting research culture, undertaking research projects, submitting research proposals, etc. The research activities in the college are supported by well-equipped library

and laboratories, online and hard bound journals of international repute. The college motivates faculty in conducting research through research based projects undertaken by final year students. College also encourages students and faculty members to publish their research work in referred journals and present their work in National and International conferences.

Seven faculty members have received grants for Minor research proposals from University of Mumbai. Two faculty members of the college have completed their Ph.D. and four faculty members of the college are pursuing Ph.D. from reputed Engineering colleges. Various departments of the college organize and conduct workshops, training programmes, STTPs for students and faculty with focus on continuing education and capacity building. As a part of the Institute's social responsibility, College promotes faculty and students for their contribution in social activities such as Cleanliness programmes, Tree Plantation and Blood Donation Camp through NSS. College involves all its stakeholders in the overall development of the college through Alumni meets, Parent meets, etc.

Infrastructure and Learning Resources

The college has infrastructure as per the norms prescribed by AICTE, New Delhi for the smooth conduct of educational activities.

The college has sufficient number of laboratories equipped with adequate equipment's, instruments, computers, and software. The computer laboratories are equipped with computers connected through BSNL's 70 Mbps leased line through a Local Area Network (LAN).

There are three seminar halls in the college for conducting seminars, conferences, and other important events.

The library provides open access to students and faculty members. It has a sufficient number of book titles, volumes, journals, magazines, and reference books. College provides opportunities to give exposure to the hidden talents of the students by organising an annual sports and cultural event named "Aarohan" every year.

The college has separate hostel buildings for boys and girls. As a part of the medical facility, a dispensary is available on the campus with a consulting doctor and ambulance service is available 24x7.

Student Support and Progression

The policies of the college are always student centric and are based on vision mission and goals of the college. Continuous assessment and result analysis is carried out in the college.

Students of our college are benefited through the government and institutional scholarships.

College has various statutory committees for smooth functioning like sexual harassment prevention cell, internal complaint committee, Entrepreneur development cell, Grievance redressal cell, Anti-ragging committee etc.

The training and placement cell of our college invites reputed companies for the campus recruitment. Also it

conducts various training and development programs for the students like soft skills development, personality development, Aptitude test etc. Career guidance cell extends its services by arranging seminars, expertise lectures on career building and competitive exam preparation. College has structured mentoring mechanism for addressing students' academic, personal, career building and psycho-social problems. College also has the entrepreneurship development cell under which students participate and organize various events, competitions and festivals. Also Alumni guest lectures are arranged to guide existing students about current industrial requirements, industry culture and recent courses to obtain employment.

"AAROHAN" is the annual college magazine where in students write technical articles, science articles stories poems in different languages.

Institute has registered alumni association, department wise alumni meet is arranged every year.

College also encourages students to participate in state, national and international level events such as Techfest, Youth festivals, Industrial trainings, visits to industries and Expo, car racing competitions, competitive exams etc. Which helps them to update with the recent developments.

Governance, Leadership and Management

Governance is based on values such as Transparency, Accountability, Team Spirit, Ethics and Quality. The management of the college ensures academic excellence in tune with the vision and mission of the college. The Management conducts periodic meetings for taking review of the progress of the college. Management looks after the faculty requirement, infrastructure, and budget requirements and provides the necessary funds. The Management takes the feedback from the Principal regarding administration, developments and infrastructural needs.

The committees like Governing council, College Development Committee and IQAC plays vital role in the development of the college. The college has also formed various committees for smooth conduction of co-curricular and extra-curricular activities.

The college has implemented performance appraisal system for teaching and non-teaching staff as per the University norms and guidelines. The HODs identify the needs of the department in discussion with their faculty members and report the same to the Principal for necessary action.

Institutional Values and Best Practices

Institute is well aware about Gender Equity and celebration of days of National/International commemoration.

Institute is well aware about the Environmental consciousness. Proper systems are in place in various aspects like energy conservation, use of renewable energy, plantation, e-waste management, green campus initiatives etc. Grid connected solar roof top PV system of 50.16 Kwp is installed.

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities.

College has developed the best practices for developing the students in all aspects like,

1. Encouraging students to participate in state and national level technical competitions.
2. Promoting students to undergo the Industrial Internships

Institute is ranked under the gold category in AICTE-CII Survey for the year 2016, 2017 and 2020. It has also ranked in the list of Best Private Engineering colleges in India Today-MDRA Survey consecutively for four years i.e.in the year 2018, 2019, 2020 and 2021.

Institute has received the ISTE Best Campus Award for the year 2018.It is also ranked among first 100 colleges across India for excellence in up-keeping wellbeing of faculty, staff and students in MHW Ranking conducted by R-World Institutional Ranking.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	At and Post. Ambav (Devrukh), Dist-Ratnagiri
City	Devrukh
State	Maharashtra
Pin	415804
Website	www.rmcet.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Mahesh Madhav Bhagwat	02354-269400	9421440640	-	info@rmcet.com
IQAC / CIQA coordinator	Dipak Mahadev Satpute	-	7620930799	-	hodfe@rmcet.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	

State	University name	Document
Maharashtra	University of Mumbai	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	15-03-2017	View Document
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	03-07-2022	12	Approved by AICTE

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 and Post. Ambav (Devrukh), Dist-Ratnagiri	Rural	31.15	22154.13

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,Automobile Engineering	48	HSC and CET	English	60	5
UG	BE,Mechanical Engineering	48	HSC and CET	English	60	14
UG	BE,Computer Engineering	48	HSC and CET	English	60	60
PG	MMS,Master Of Management Studies	24	Graduation and CET	English	60	30

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				5				7				34
Recruited	0	0	0	0	1	0	0	1	20	10	0	30
Yet to Recruit				5				6				4
Sanctioned by the Management/Society or Other Authorized Bodies				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
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				23
Recruited	13	0	0	13
Yet to Recruit				10

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				27
Recruited	13	0	0	13
Yet to Recruit				14

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/ LLD/DM/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	1	0	0	0	0	0	1
M.Phil.	0	0	0	0	0	0	1	0	0	1
PG	0	0	0	0	0	0	13	3	0	16
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/ LLD/DM/M CH	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	6	7	0	13
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	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
UG	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**
	0	0	0	0

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	58	0	0	0	58
	Female	25	0	0	0	25
	Others	0	0	0	0	0
PG	Male	15	0	0	0	15
	Female	15	0	0	0	15
	Others	0	0	0	0	0

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

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	7	5	3	1
	Female	1	2	5	1
	Others	0	0	0	0
ST	Male	5	3	1	0
	Female	0	2	0	0
	Others	0	0	0	0
OBC	Male	22	11	10	8
	Female	9	12	3	7
	Others	0	0	0	0
General	Male	80	70	47	62
	Female	24	31	26	29
	Others	0	0	0	0
Others	Male	8	8	4	6
	Female	6	6	1	0
	Others	0	0	0	0
Total		162	150	100	114

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Multidisciplinary or interdisciplinary learning is a comprehensive method that covers an idea, topic, or text by integrating multiple knowledge domains. It is a very powerful method of teaching that crosses the boundaries of a discipline or curriculum in order to enhance the scope and depth of learning. We offer Institute level Elective Subjects to students, which are offered in Curriculum by the affiliating University.Apart from that we encourage students to do Multidisciplinary Projects and also to work in cross Departmental Teams to participate in National level competitions like Formula Bharat etc.
2. Academic bank of credits (ABC):	Our College is affiliated to University of Mumbai

	and we are following University norms/Guidelines. As of now, it seems it is applicable only to Universities and Autonomous Colleges.
3. Skill development:	The National Education Policy (NEP) 2020 has given special emphasis on vocational education through integration and mainstreaming of vocational education with general education which will help students in acquiring various skills to meet the needs of the industries and to improve the quality of education. We have signed MOU with Technical training Institutes like Prolific Systems which can provide hands on training to students in their area of Interest in Latest Technology. We have signed MOU with Soft Skill training Institutes for soft skill development.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	AICTE in its 49th meeting of the Council held on 14th March 2017, approved a package of measures for improving the quality of technical education in the country, wherein it was decided that every student, on admission, shall be put through a mandatory Induction program to reinforce the fundamental concepts and strengthen language skills required for technical education. Accordingly, we are conducting the three-week Student Induction Program (SIP) based on Universal Human Values (UHV) in our college every year.
5. Focus on Outcome based education (OBE):	Outcome-based education (OBE) is an educational delivery model that focuses on mapping, measuring, and achieving predetermined educational goals to help students learn, develop, and nurture skills that would help them grow in their professional as well as personal life. For this purpose, 1.We have defined Institution's Vision & Mission. 2. Established the Program Educational Objectives & Program Outcomes. 3. Established the Program Outcomes (POs) 4. Established the Course Outcomes (COs) 5.CO-PO Mapping and attainment is done at every stage of Learning journey of students.
6. Distance education/online education:	NEP 2020 recognizes online learning/education as an alternative model to deliver quality education.Online learning has proven its effectiveness during the COVID-19 pandemic. We encourage our students to undergo Online Courses offered by NPTEL, Infosys Springboard and other Platforms wherein students can learn various Courses of their Interest.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
677	738	756	822	904

File Description	Document
Upload supporting document	[View Document]
Institutional data in the prescribed format	[View Document]

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 82

File Description	Document
Upload supporting document	[View Document]
Institutional data in the prescribed format	[View Document]

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
35	45	47	51	68

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
207.00	229.20	192.11	243.54	323.08

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4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Rajendra Mane college of engineering & Technology is located in a remote area just a few kilometres away from the district place. The institution is affiliated to the University of Mumbai and implements the curriculum of University of Mumbai. The institution follows a choice based credit system at UG and PG level. The institution ensures effective curriculum delivery through different methods. The college sticks to the Calendar of Events enlisted by the University in order to schedule the activities of the college.

The college prepares the academic calendar for the session incorporating the vacation and special holidays announced by Govt. in terms of course completion, internal assessment and practical examinations. Prior to the commencement of each semester, the Principal conducts meeting of Heads of the Departments to plan Academic Calendar in tune with University Academic Calendar.

- Heads of the Departments allocate the teaching work of the next semester.
- All the departmental faculties prepare **Teaching plans** before the commencement of the academic session for individual courses which are recorded in their individual Academic Diary. HOD of each department verifies the progress of each faculty member in terms of teaching plan at the end of every month.
- The institution adopts both the traditional methods of teaching and also innovative teaching techniques. The institution supplements classroom teaching with curricular activities like special lectures, **seminars,** group discussions, debates as part of effective implementation of the syllabus. Short Term Courses and **Soft Skill programs** are conducted; **Industrial visits** are arranged for the overall development of the student.
- **Internal examination** I and II are carried out by examination department as scheduled in the academic calendar. **Term work** including assignments & experiments conducted. Both are evaluated using properly designed rubrics. The distribution of 25 marks for Term Work is as - Experiments & Assignments each of 10 marks & attendance 05 marks.

Projects are given to the students under the supervision of the faculty. Review and evaluation of **project work** of SE, TE & BE students is done by faculty guide and HOD.

The Parent- Teacher Association conducts the **meeting with parents** so that the performance of the students is analyzed. The issues related to curriculum and timely completion of curriculum is discussed in Parent – Teacher meeting as well.

The **feedback** from the students, their over-all performance in the class and the results of the examination serves as a benchmark for the better curriculum delivery. Students-Teacher -Guardian Scheme (**Mentor-Mentee**) is implemented for identifying problems of the students regarding academic, non-academic issues.

The improvement of teaching skills of individual teachers and to help better equip themselves, the IQAC encourages teachers to attend workshops and seminars and also to contribute research articles to various journals.

- Book Bank facility is provided to first year students.
- All Departments have Departmental Library facility for students and faculty.
- The college has launched FTP Server for online access of course material and NPTEL video lectures.

File Description	Document
Upload Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 07

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 11.14

1.2.2.1 **Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
00	13	00	300	121

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.3 Curriculum Enrichment

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

Response:

Issues related to Professional Ethics, Gender, Human Values, Environment and sustainability have been incorporated in the syllabus of various courses.

- Twenty one days Induction programme related to values and ethics is an integral part of the curriculum of the 1st year.
- The compulsory course "**Professional communication and ethics –I**" for the 2nd semester and "**Professional communication and ethics –II**" for the 5th semester is important part of Curriculum. It provides free environment for inculcating values and developing ethical competence among the students.
- The students learn about professional ethics through practical conducts and behavior in class rooms, **NSS activities** and training camps. Through value education like Yoga and meditation, social activities like Swachh Bharat Abhiyan students are imparted mental discipline and moral conduct.
- College celebrates days of **National and International importance as Republic day, Independence Day, Teacher`s day** etc. to nurture the moral, ethical and social values in the students.
- Gender Equality is one of the key issues in today's world. Opportunity is given to the girls along with the boys in committees. Various programs are coordinated and organized by the girls along with boys.
- **Anti-Ragging committee** is effectively working in the College. The committee comprises of mixed gender. Some members of committee are from community like reporter, police, doctor, parent and students.
- The college has **Sexual Harassment Prevention Cell (WDC)** provides counselling to students; promote gender stabilization among students, staff and faculty. This cell organizes different programmes for girls like 'world women Day', street play, quiz etc.
- Due to active vigilance of the committee no incidence has been recorded in College campus.
- Sexual harassment prevention cell, **internal complaint committee** and **Grievance Redressal cell** are effectively functioning.
- **Environment Management** is prescribed as an elective course for Semester VIII of all under graduate programs. In this course, students learn about ecology, natural resources, pollution of nature and remedial measures, conservation of nature, biodiversity, management of the environment, human population, sustainability, environment legislations and other related social issues. It aware the students about the importance of ecosystem to human life.
- The introduction of such courses helps develop a positive attitude and temperament among the students by deepening their awareness of moral human values so that they grow up to be responsible citizens of the nation and their surrounding environment.
- College "**Nature club"** organizes tree plantation program, trekking tour, seminars on Environment & Ecology to make students aware about efficient use of natural resources. The College has also integrated **rain water harvesting** System and **waste water treatment plant**.
- The college campus is under CCTV surveillance. There are separate Boys & Girls hostel (In-

campus) for providing the safe environment to all students

File Description	Document
Upload Additional information	[View Document](#)

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 28.36

1.3.2.1 **Number of students undertaking project work/field work / internships**

Response: 192

File Description	Document
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 44.38

2.1.1.1 **Number of students admitted year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
113	114	100	150	162

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
240	300	300	300	300

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the last five years (Exclusive of supernumerary seats)

Response: 23.88

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

2021-22	2020-21	2019-20	2018-19	2017-18
28	18	24	34	45

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

2021-22	2020-21	2019-20	2018-19	2017-18
108	138	134	136	108

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 19.34

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 using ICT tools

Response:

All departments conduct innovative programs which motivate the creative ability of students and provide them a platform to develop their problem-solving skills and ensure participative learning. The institute organizes annual technical fest, SCINTILLA in which students showcase their learning in the form of innovative projects. Faculty members make efforts in making the learning activity more interactive by adopting the below-mentioned student-centric methods.

1.Experiential Learning: The institution imparts the following experiential learning practices to enhance creativity and cognitive levels of the students –

- Summer Internship -Students get hands on training while working in the company.
- Students verify the facts and laws of the subject with the help of experiments in Experimental/Laboratory method.
- Language Lab, Virtual lab, Google Classroom, Industrial Visits etc. are some of the means utilize by the Institution to provide experiential and participative learning.
- Participation in simulated events such as Hackathons where they acquire experience of working on some real-life model.
- Mark-Biz activity by MMS students- The students set up and operated a real market place, through which they modeled various scenarios, which facilitated understanding of the market environment. They experience purchase, sales, aftersales processes, and related considerations as well as challenges.
- Certification Courses (Value Added Courses) by the market experts such as Microsoft/ Google etc. to develop their expertise.

2. **participative Learning:** Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as,

- The project work provide student an opportunities of freedom of thoughts and free exchange of different views. They are given the opportunity to participate in Paper Presentations, Project Competitions etc.
- For participative learning students involved in activities like MH-08, E-club etc.
- Annual cultural program – This is organized every year for the students of the college to give an opening to their creativity.
- NSS Cell have been set-up for the students to participate, integrate and learn.
- The Student seminars are organized where papers are presented by students to enrich their learning experience.

3. **Problem-solving methods:**

- Field work, Mini Project, projects, Case studies Discussion, Participation in Inter college events etc. help student's to acquire problem solving ability.
- Considering problem of medical supply delivery to remote areas of INDIA Computer Engineering students prepared project on **Autonomous Drone for Medicine Delivery.**
- During the COVID-19 pandemic, our students developed a Bluetooth controlled Cart for Health workers working in Covid centers. This art was able to deliver up to 80 kg of goods in 100 meter distance.

File Description	Document
Provide Link for Additional information	[View Document]()

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 87.54

2.4.1.1 **Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:**

2021-22	2020-21	2019-20	2018-19	2017-18
46	54	54	54	73

File Description	Document
Upload supporting document	[View Document]()

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 100

2.4.2.1 **Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
35	45	47	51	68

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

- The institute has a college level Examination cell and a department level Internal Examination in charge. The exam cell works under the supervision of the Head of the institute.
- Every department has Internal Examination in charge that is responsible for the preparation of Timetable and seating arrangement. Based on Bloom's Taxonomy question paper are designed. Results of Internal Examinations were displayed in stipulated time.
- After evaluation of internal tests, the answer sheets are shown to the students for any grievances. The grievances of the students are considered and resolved by concerned subject teacher.
- The average of the two internal tests is considered for the internal assessment marks.
- For the continuous evaluation process, internal tests, tutorials, assignments, quiz, internship, presentations, lab work, seminars, Exit survey, projects etc are taken into consideration.
- Term work marks are given to the student depending on the continuous performance in the internal assessment.
- The rubrics for the evaluation of internal assessment are communicated to students before the commencement of the semester.
- In order to ensure transparency in internal assessment, the system of internal assessment is communicated with the students well in time.
- Evaluation is done with transparency based on different parameters like Teachers Assessment, Practical Records, Performance and Viva.
- The assessed answer books and tutorials are shown to the students.
- Marks obtained in the tests, assignments, practical and tutorials etc. are communicated to the

students within a week and their signatures are taken in the academic diary.

- The institute exam cell takes the overall responsibility of conducting the end semester examination, the evaluation of answer sheets, moderation of answer sheets and preparing the results.
- University end semester examination result may be challenged by re-evaluation. Students having doubts in marks, fill the re-evaluation form with a nominal Exam fees. They have to submit re-evaluation form within 15 days from the result Declaration.
- Re-evaluation process is carried out by reevaluation of answer sheet by other examiner.
- Students can also ask for Photocopy of answer book to know marks awarded for every answer. They can apply for rectification of marks if there is mistake in total or any not assessed part in the answer sheet.
- This whole process is conducted in such a way so as the student gets updated result within the same semester; hence it is a time-bound process.
- After completion of university examination, Unfair means meeting is conducted in each semester and report of the same is submitted to Head of exam cell.

File Description	Document
Upload Additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

- Programme Outcomes (PO) were formulated reflecting the Vision, Mission and Strategies of the College. While formulating POs, the College considered academic excellence, research potency, scope of extension activities, human values, and recent trends in the job markets.
- The Programme Specific Outcomes (PSO) are designed by the concerned Departments with their respective vision, mission and scope of the programme.
- The Course Outcomes (CO) are formulated by the Department in consideration with the course teachers and with expected learning levels.
- Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution.
- Faculty members are exposed to the concept of outcome based teaching learning process through seminar and lecture of experts.
- At the beginning of every academic session, the subject teacher conveys Course Outcomes (CO) as the introductory part of respective subjects.
- Further, the faculty of every subject explains the course outcomes, evaluation pattern, marking scheme etc. to the students. It is also given in the syllabus of each subject.
- The copies of the syllabus are kept in the department. However, the student can download the syllabus from the Website of University of Mumbai.
- Setting of Question papers are based on course outcomes and Bloom's Taxonomy.
- The rubrics for the evaluation of internal assessment were designed.
- For the continuous evaluation process, internal tests, tutorials, assignments, quiz, internship,

- presentations, lab work, seminars, Exit survey, projects etc are taken into consideration.
- Course wise percentage attainment of outcomes is calculated at the completion of each course , based on the Internal Assessment of exams – I & II, term work, tutorials, assignments, course exit survey, and end semester result.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6.2 Pass percentage of Students during last five years

Response: 95.03

2.6.2.1 **Number of final year students who passed the university examination year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
239	241	246	246	291

2.6.2.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
255	247	247	269	311

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 *Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)*

Response: 11.99

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0.445	10.8	0.74

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

RMCET strongly believes in supporting innovations for its stakeholders like faculty, research scholars, staff and students. In its endeavor to create a holistic approach to address the need for nurturing ideas that could contribute to the betterment of society. The innovation and entrepreneurship ecosystem provides a one stop solution to innovators and entrepreneurs with an advantage of all facilities being available in a single campus.

Our college established the **Entrepreneurship Development Cell (EDCell)** 0n 17th February 2012, with the vision of promoting specialized knowledge in the field of entrepreneurship development. The main objectives of the cell is to create awareness among the students about entrepreneurship, conduct seminars & workshops in the field of entrepreneurial skill development and provide guidance and facilities to first time entrepreneurs.

The ED Cell of the College conducts various awareness programs such as Seminars, Workshops, counseling sessions, etc. These programs are aimed at making the student community more enthusiastic towards entrepreneurial activity.

The entrepreneurship cells of constituent institutions organize events to instill the culture of

entrepreneurship among faculty and students. The entrepreneurship cells work closely with the Incubators and Innovation Center for providing required guidance on innovations and start up formation. This motivates many students and faculty to create their own start-ups.

College has established the **Institute Innovation Cell (IIC)** in the year 2018-19. It is established to inculcate the culture of Technical Innovation among the students with the help of Faculty members. The foremost purpose of the cell is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes during their course of technical education. With the following objective:

1. To conduct Entrepreneurship mentoring programs for students.

2. To motivate students to start their own start-ups.

3. To make students aware about various opportunities in entrepreneurship.

4. To inculcate problem solving & creative thinking attitude among students.

5. To create a conducive entrepreneurial culture.

Initiatives & Activities:

Under the aegis of this cell, various activities have been organized which gives real time exposure to the students and provide them a platform to showcase and implement their practical learning.

It aims to enable students to acquire knowledge through practical learning experience and apply that knowledge to prepare electronic models/circuits for various technical purposes.

The cell also encourages students to come up with working engineering models and projects which are helpful to the society and that work towards the enhancement of safety and socio-economic conditions of the typical Indian society.

Some of the activities conducted under ED cell and IIC are as follow:

1. One week workshop on Entrepreneurship Awareness during 20/08/2018 to 24/08/2018.

2. Hands on Maintenance of refrigerator on 18/03/2019.

3. Seminar on Start-up India on 17-10-2019.

4. Workshop on "Entrepreneurship and Innovation as a Career Opportunity" on 24/07/2021.

5. Webinar on "Innovation and Startup Ecosystem" on 9/10/2021.

6. One Day Online Workshop on "Business Opportunities in Automotive Service Industry" on 23/04/2022.

File Description	Document
Upload Additional information	[View Document](#)

3.2.2 *Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years*

Response: 50

3.2.2.1 **Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
11	6	14	12	7

File Description	Document
Institutional data in the prescribed format	[View Document](#)

3.3 Research Publications and Awards

3.3.1 *Number of research papers published per teacher in the Journals on UGC care list during the last five years*

Response: 0.56

3.3.1.1 **Number of research papers in the Journals notified on UGC CARE year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
2	1	5	34	4

File Description	Document
Institutional data in the prescribed format	[View Document](#)

3.3.2 Number of books and chapters in edited volumes/books published and papers published in

national/ international conference proceedings per teacher during last five years

Response: 0.55

3.3.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
1	3	1	26	14

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The **NSS Cell** works to develop the overall personality of students through a series of regular activities which are undertaken both within the Campus and outside it in the form of special camps. Service to mankind is service to god. Imparting such values and attitudes into students is the motive of the institution. Believing in this, the institute carries out a number of extension activities in the neighbourhood community. The college has a NSS unit with 80 dedicated student volunteers who concentrate on the welfare of the neighbourhood community and sensitizes their social problems and takes necessary steps for the betterment of the society. The institute promotes regular engagement of faculty, students and staff with the neighbourhood community for their holistic development and sustained community development through various activities.

- Every Year, many programmes are organized in which students and staff members participate voluntarily in community based activities. Various Awareness Programs, Workshops, Rallies and Road Shows with themes like Health Awareness, Cleanliness, Green Environment and Tree Plantation under 'Mazi Vasundhara' project are organized.

- Continuous voluntary activities by students to maintain cleanliness in and around the Campus, create awareness about the role of clean environment in human health and contribute to the National Swachh Bharat Abhiyan.

- Distribution of Mask and Sanitizers.

- Organized Covid-19 vaccination camp

- Awareness of organ donation, Covid-19.

- Hemoglobin Checkup Camp

- Lecture on 'Say No To Drug'

- Workshop on 'Automobile Vehicle'

- Implemented Vermicompost Project

- Construction of Bandhara on rivers

- Blood donation camp

NSS has also organized and commemorated events such as Shiv Rajya Din, Independence Day, NSS Day, Shiv-Utsav Day, Teacher's Day, International Women's day, Marathi Bhasha Din, International Day of Yoga, World Environment Day, Rastriya Ekta Saptah etc.

Association of Computer Engineering had organized **i-Spark 2k20** on 6th March 2020 and **i-Spark 2k18** on 16th and 17th March 2018. The objective of this event is to provide a platform to the school and junior college students from nearby localities to express their skills through different events. In the Valedictory function, all winners were given certificates and prizes. Educational support was offered to the needy and hardworking students of participated schools.

Department of Automobile Engineering had developed and delivered a project of **Solar Operated Street Light using android application** to Lok Vidyalay, Tulsani.

Department of Electronics and Telecommunication Engineering had developed and delivered **a Robo Cart for the use at Covid 19 treatment center** to Civil Hospital Kamathe, Chiplun and Civil Hospital, Ratnagiri.

Impact & Sensitization:

Exposure to extension and outreach activities sensitize the students towards social issues and also to legal and social remedies .The activities conducted lead imbibing the values of social responsibility such as:

1. To help people in need and distress.

2. To promote cleanliness in all span of life and common places.

3. To acquire social values and a deep interest in environmental related issues.

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

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

In the academic year 2018-19 under the extension activities total 20 students had participated in annual extension work festival **"UDAN-The flight of Extension"** which is conducted by **DLLE** department of Mumbai University. The different activities were conducted during the annual program like essay, poster presentation, street play etc. Our students won **2nd prize in street play.**

Rajendra Mane College of Engineering & Technology (RMCET) had successfully organized 51st Inter-collegiate/Institute/Department Cultural **Youth Festival** for the academic year 2018-19 for Ratnagiri South Zone (Zone X) successfully. We had made the necessary arrangements for conducting various events. Total 35 events in Fine Arts, Music, Literary, and Drama have been organized by our college.

RMCET students had participated in 29 different events in Fine Arts, Music, Literary, and Drama. RMCET Students had won in total 4 events at Zonal Round of 51st Youth Festival held at Rajendra Mane College of Engineering & Technology, Ambav On 6th August 2018.

Following students were the rankers in different events and they participated in University level competitions held at University of Mumbai on 6th September onward.

Sr. No.	Name of the Event	Name of the Student	Rank
1	Western Group Song	1. Mr. Raut Shreyas Atmaram 2. Mr. Dhotre Vikrant Anant 3. Ms. Rao Tejal Rajesh 4. Ms. Borye Pradnya Pandurang 5. Ms. Kamble Pooja Prakash 6. Ms. Mestri Ankita Vijay	I
2	Debate Group B (Other than Marathi)	1. Mr. Burshe Pushkar Mangesh 2. Ms. Roy Khushboo Nantu	I
3	Elocution Group B (Other than Marathi)	1. Ms. Naik Ishwari Anil	III

4	Collage	1. Ambekar Kaustubh Kishore	III

In the academic year 2019-20 under the extension activities total 15 students had participated in annual extension work festival "UDAN-The flight of Extension" which is conducted by DLLE department of Mumbai University. Our students won **3rd prize in street play.**

Rajendra Mane College of Engineering & Technology had successfully organized 52nd Inter-collegiate/Institute/Department Cultural Youth Festival for the academic year 2019-20 for Ratnagiri South Zone (Zone X). We had made the necessary arrangements for conducting various events. Total 35 events in Fine Arts, Music, Literary, and Drama have been organized by our college.

RMCET students had participated in 14 different events in Fine Arts, Music, Literary, and Drama. RMCET Students had won in total 4 events at Zonal Round of 52nd Youth Festival held at Rajendra Mane College of Engineering & Technology, Ambav On 3rd August 2019.

Following students were the rankers in different events and they participated in University level competitions held at University of Mumbai on 18th September 2019 onward.

Sr. No.	Name of the Event	Name of the Student	Rank
1	Clay Modeling	1. Mr. Shetye Siddhesh Prashant	I
2	Mimicry	1. Mr. Kulkarni Omkar Damodar	I
3	Elocution Group A (Marathi)	1. Mr. Kulkarni Omkar Damodar	III
4	Cartooning	1. Ambekar Kaustubh Kishore	III

Team MH-08 Racing has received awards and recognitions in different events at National and International level.

File Description	Document
Upload Additional information	[View Document](#)

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 51

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**

2021-22	2020-21	2019-20	2018-19	2017-18
12	4	15	7	13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:

Response: 15

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

Institute has been facilitated with sufficient number of classrooms, technology enabled seminar halls, well equipped laboratories, ICT tools for teaching learning etc. The total number of classrooms in the college are 22 and area of all classrooms is as per the requirement of the AICTE Norms with seating capacity of 60 students. Out of 22 classrooms 05 classrooms are provided with LCD Projectors and Wi-Fi enabled internet connectivity. There are 03 Seminar halls and 02 are smart Classrooms.

The Institute is facilitated with two smart classrooms (Tata Edge Smart Classroom) equipped with speakers and microphone, along with LCD projector, LCD screens and green boards. These classrooms have connections for laptops, computers, and computer networks, along with internet access and a smart panel that allows easy access to online resources.

All Laboratories are designed as per the curriculum to provide experiment based as well as project-based learning to the students. Fire extinguishers, first aid boxes are made available at easily accessible points. The language lab has been equipped with the required software tools. Darkroom facility has been provided in the physics laboratory for the performance of experiments related to optics. College has 347 desktops computers, equipped with necessary accessories, which are mostly used for academic purpose.

The Language Laboratory is set up to imparting language skills. It is effectively utilized by students for various self-enhancement and soft skill development activities

Classroom Description:

Description	No.	Total area in Sq. m.
Classrooms	20	1669
Smart Classroom	02	
Workshop	05	608
Drawing Hall	01	140
Tutorial Rooms	05	210
Laboratories	38	3344
Seminar Hall	03	
Central Library	01	510

Open-source software are also being used by the faculty as and when there are curricular requirements. 70 Mbps of Internet bandwidth and 19 secured Wi-Fi connectivity access points are provided in the campus. The security of the campus is ensured with installation of 14 CCTV cameras at strategic locations

Cultural Activities Details:

- The college celebrates Women's day, Teachers' day, Engineers' day, Shiv Jayanti, plantation& many other various social & Cultural activities. It also organizes nature club activities by organizing nature trips to nearby historical places
- College also provides opportunities to give exposure to the hidden talents of the students by organizing Annual Sports and Social Gathering festival "Aarohan".

Student Achievement :

- Omkar Kulkani from Mechanical Engineering Department has won the Mr. University runner up title in 2018-19, has won Silver medal in Jackpot event Management competition as a partof youth festival in year 2018-19.
- Mr. Pranay Chalke has won silver Medal in Pistol Shooting Competition at University Level in year 2020.

Gymnasium: A Sophisticated gymnasium is also facilited by the college for the students to develop their physical strength and fitness.

College organizes Cricket, Football, Volleyball, and Basketball, tournaments annually for different classes of steams and also participates in various inter-college competitions.

Students participate in various cultural and sports activities and competitions at university, state, national, international level to showcase their talent through such events

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 0

4.1.2.1 **Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
0.00	0.00	0.00	0.00	0.00

File Description	Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

Name of Library Software: EASYLIB (Entire Automation System for Libraries)

Central Library of Rajendra Mane College of Engineering and Technology, Ambav (Devrukh), Ratnagiri had purchased commercials Library Management software EASYLIB advanced Multi-User Software Version 4.4.2 in the year 2007 and since then library functioning has been automated. This IIMS is used to manage all library collection like books, journals, magazine, articles, CDs, bound volumes-journals access etc. Barcode technology issued in the library for issue and return of books. All functions like Issue-return , Renewal, Report Generation, Stock verification,OPAC (Online Public Access Catalogue ,EPAC (Electronics Public Access Catalogue) , Federated search for multiple databases,Computerised Library In out management System etc. are fully automated.

In this year 2007-2008, the software was upgraded and college subscribed same EASYLIB Software ILMS which provide Web-OPAC. With this new feature, readers can easily access the library catalogue/OPAC from anywhere and search the library collection online. They can check which books are issues on their names, due date, renewal the due date ,Books and Non Books materials search data and check other electronic resources Library has provided,

The Web-OPAC link is available on,

> http://192.168.12.89/Epac/Epac_selorg.asp

Description of library with,

Sr No	Parameter	Details
1	**Name of ILMS software**	EASYLIB 4.4.2
2	**Nature of automation**	Fully Automated
3	**Version**	4.4.2
4	**Year of Automation**	**2007-2008**

- **Manage Books Module**: The Manage Books module is categorized in Regular books, Book Bank, Social welfare & Competitive examination. Details for each book is available like Book type, Accession Number, Title of book, Author name, Edition, Volume, Name of publication etc.
- **Issue/Return Module**: In Book Issue/Return module, separate search engine is available to search student profile and his/her transactions from the data by using student name/ student code. Books are issued to users by scanning barcode. Easylib software auto-update the record of book/s issued to the student/faculty, issue date, expected return date and remarks (return/ renew/ lost) are available.

- **Other Digital Facilities**: The Central library provides following facilities:

- The central library has separate Digital library section, equipped with adequate number of

computers. User can access the various resources through digital library like,

1. NDL: National Digital Library
2. NPTEL Video Lectures
3. E- Books
4. Online open source journals

- Free of cost Book-bank facility is available for SC/ST students under Social Welfare Scheme. In addition to this, three topper students from each class are getting free Book-bank facility.
- Competitive examination, Personality development section: more than 2000 books are available for competitive exam preparation

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

IT Facilities:.

- Institute has 06 ICT enabled classrooms, three Seminar Halls with LCD projectors, LAN, Wi-Fi and well-equipped 38 laboratories, two Smart Boards in the classrooms to ensure effective interactive learning.
- Internet Service is available for both faculty and students on the campus with 70 MBPS.
- All Systems in the campus have internet facility on them.
- The college provides internet facility to all faculty members in all systems of the institute irrespective of the department to preserve and download materials for academic purposes as and when required.
- All faculty members are provided with their personal computers. The principal's office, Administrative office, placement Section, faculty members and Students all enjoy internet/Wi-Fi facility.
- College promoting Teachers and students to register NPTEL course. NPTEL courses provide E-learning through online Web and Video courses various streams.
- Uninterrupted power supply is made available on the campus access. WIFI also available in Library and all the hostels campus.
- Computer systems are upgrade with the latest software once every 3 years. Obsolete computers are replaced and new once are procured. The cost provisions are also made on a sufficient broader scale

for this in the annual budget. All system are duly monitored. Students are also taught to use them with almost care and precaution.

- The institute has high configured 01 Server Room, 14 Laptops, 47 Printers, 02 scanners and total-347 computers(Branded Companies i.e. Lenovo, branded Dell , Acer, Assembled) for students and staff members
- 21 switches are installed to connect 70 Mbps dedicated leased line internet connectivity.
- Biometric attendance system is employed for staff members**.**
- Institute and Hostel Campus is under Surveillance with 15 CCTV camera.
- **Details of Computer Hardware**

Computers	Server	Laptop	UPS	Computer Lab	Internet Browsing	Printers	Scanner
347	01	14	03	13	09	47	02

Details showing Licensed Software's:

Sr. No.	Name of Department	Description	Quantity
01	Computer Engineering		
	Multimedia System Lab	IBM Software Architecture	24

List of System Software	List of Application Software (Open Source)
01. Windows XP	1. Microsoft Office 365
02. Windows 7 Professional	2. Microsoft Expression Web
03. Windows 7 Vista	3. Office Professional Plus
04. Windows 2003 server standard	4. Visio Premium 2010
05. Windows 2008 server standard	5. Dot Net
06. Windows 8	6. Visual Foxpro
07. Windows 8.1	7. Visual Studio
08. Windows 10	8. Language Lab- Place Mentor
09. Windows7	9. Java
	10. Java Toolkit
	11. Tally ERP

Security Mechanism: For internet security and user management, we are having:

- All Users need to login through Captive portal to access the internet facility.

- Firewall Provides enterprise-level Secure Web Gateway policy controls to easily manage sophisticated user and group web controls. The security policies applied are based upon uploaded web keywords indicating inappropriate use or behavior.

- We are having Secure Endpoint Security (Quick Heal Antivirus).

File Description	Document
Upload Additional information	[View Document](#)

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.24

4.3.2.1 **Number of computers available for students usage during the latest completed academic year:**

Response: 302

File Description	Document
Upload supporting document	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 3.31

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

2021-22	2020-21	2019-20	2018-19	2017-18
1.82	0.82	7.09	7.25	22.63

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 75.55

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

2021-22	2020-21	2019-20	2018-19	2017-18
566	601	600	593	584

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.2 *Capacity building and skills enhancement initiatives taken by the institution include the following*

1. *Soft skills*
2. *Language and communication skills*
3. *Life skills (Yoga, physical fitness, health and hygiene)*
4. *ICT/computing skills*

Response: A. All of the above

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 57.51

5.1.3.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
396	441	374	460	570

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

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

  1. **Implementation of guidelines of statutory/regulatory bodies**
  2. **Organisation wide awareness and undertakings on policies with zero tolerance**
  3. **Mechanisms for submission of online/offline students' grievances**
  4. **Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Upload supporting document	[View Document](#)

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 43.63

5.2.1.1 **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
86	122	93	125	125

5.2.1.2 **Number of outgoing students year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
239	241	246	246	291

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 21.43

5.2.2.1 *Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years*

2021-22	2020-21	2019-20	2018-19	2017-18
0	1	0	0	2

5.2.2.2 **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
4	7	0	1	2

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 23

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

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	8	9	6

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 11.4

5.3.2.1 **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
2	0	16	27	12

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The institution has been registered for alumni association with charity commission having registration number as "Maharashtra/5832/Ratnagiri" dated 23/02/2017. Alumni association is composed of following members;

Sr. No.	Name	Position
1	Dr. Bhagwat M.M.	President

2.	Mr. Dongare V.K.	Vice President (Head of Committee)
3.	Mr. Surve P.S.	Treasurer
4.	Mr. Joshi V.S.	Secretary
5.	Mr. Surve Pramod S.	Member
6.	Mr. Gamare P. S.	Member
7.	Mr. Manchekar N.N	Member
8.	Ms. Ghubadepatil P. S.	Member
9.	Ms. Arte S	Member
10.	Mr. Shedge Nitin Ravindra	Member
11.	Mr. Bodhe R.R.	Member
12.	Mr. Khochare R.R.	Member
13.	Mr. Jagushte N.Y.	Member
14.	Mr. Dongare H.P.	Member

The primary vision of the alumni association is to foster a mutual association between the institute and alumni. Alumni meet is arranged every year as per the academic convenience.

Objectives of Alumni association:
1. To form a close and strong relation between the alumni and the institution.
2. To promote and encourage alumni interest in the affairs and wellbeing of the institution.
3. To form bonding between alumni and existing students.
4. To assist and support efforts of the institution in terms of funds for the development.
5. To initiate and develop programs for the benefit of alumni as well as present students.
6. To guide and assist about recent courses done by alumni to obtain their employment and engage in productive work for society.
7. To guide existing students in their career and competitive exams preparation like NET, GATE, civil services etc.

Actual working of Alumni Association:
Since 2017 Alumni cell is working well and plans different activities for the existing students .Few of them so far are as follows,
1. In 2017-18 Institute level alumni meet was held in Mumbai and in Pune for year 2018-19. The department wise alumni meet is arranged every (each) year.
2. Under the "Maji Vidyarthi Sangh of Rajendra Mane College of Engineering and Technology, Ambav, alumni contributed for the development of institution.

Details of the same are as follows:

Year of contribution	Quantum contribution
2017 - 18	47900/-
2018 - 19	34400/-
2019 - 20	19600/-
2020 - 21	21400/-
2021 - 22	22300/-

3. We invite our alumni as a guest to share their views on the occasion of annual program also to promote them in the affairs of institution. It makes strong bond between alumni and institution as well as alumni

and existing students.

4. We organize alumni guest lecture to guide (or help) students in their preparation for various competitive examinations, soft skill development and also to make students aware about the industry culture and expectations by exchanging their experiences.

File Description	Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

Vision Statement:

To empower the rural youth for better employment by providing engineering and management education.

Mission Statements:

* To prepare all students for successful career, based on Strong Moral and Ethical Foundation.
* To produce quality engineers by providing state of the art engineering education
* To impart personality development skills to students that will help them to succeed.
* To encourage and facilitate faculty and students to work together across discipline boundaries.
* To bring up mutually beneficial partnerships with Alumni, Industry and Institutes.

Nature of Governance:

The governance system of the college aims to achieve the stated goals. Prabodhan Shikshan Prasarak Sanstha's Board of Directors provide the direction and guidance to the college for future development. The Board of Directors receives feedback and reports from Governing Council (GC), College Development Committee (CDC), Internal Quality Assurance Committee (IQAC) and Departmental Advisory Board (DAB). The representation of all stakeholders such as students, Parents, Alumni, industry personnel, faculty members and administrative staff is included in GC, CDC, IQAC and DAB. It helps the stakeholders to provide suggestions in policymaking. We have formed the statutory committees having representation of faculty and students, for smooth functioning of the college level activities.

Decentralization and participation:

The college encourages for decentralization and participative management by involving stakeholders in decision making. CDC recommends the policies to the Governing Council for final approval for implementation. The members of both the bodies are comprising of Board Members, nominees of AICTE, DTE, University and nominated expert members from the Educational, Industry and Faculty Members. Autonomy is given to the head of departments for planning, organizing and executing the academic activities according to the Academic Calendar. The college decentralizes the authority and provides operational autonomy to the statutory committees. Additionally, committees for various institute level events are formed every year with their responsibilities and functions.

File Description	Document
Upload Additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

Policies and administrative setup

Governing Council and College Development Committee (CDC) are the two important bodies of the Institution which are making policies, rules and regulations and implementing the same for the overall development of the Institution.

CDC recommends the policies to the Governing Council for final approval for implementation. Both the bodies' members are comprising of Board Members, nominees of AICTE, DTE and University and nominated expert members from the Educational, Industry and Faculty Members.

The administrative setup is described in the Organogram.

Appointment

The procedure for appointment of teaching staff is followed as specified by University of Mumbai vide Circular No. Concol/ICC/04 of 2012 dated 10th February 2012 and Concol/05/17-18 dated 14th August 2017.

Direct Recruitment to all Cadres is based strictly on merit. Selection is done by duly constituted Committees as per the procedure mentioned in the HR manual.

Service rules

Service rules are defined in the HR manual prepared by the Institution. Service Rules and Regulations includes Service conditions, Promotion Policy, Retirement, Resignation, Termination, Code of Conduct & Disciplinary Proceedings, Job Responsibilities, Research & Consultancy, Working hours, Workload etc.

Strategic/ perspective/development plan

The college has perspective plan for development. The institution takes efforts in finding the key performance indicators from various perspectives for performance assessment and development. It addresses the various issues from the stakeholders' perspective and takes steps to fulfil the requirements of students, parents, employers', community etc.

We have successfully deployed the following development plans:

Solar power plant:

The tender for solar roof top PV system of capacity 50.16 kW was given to Elina Solutions Pvt. Ltd. Pune and they have installed it accordingly. It generates approximately 200 units of electricity per day and we have net metering system provided by MSEDC Ltd.

CCTV installation:

Recently, we have installed CCTVs in hostel premises for the security and safety, which includes 04 boys' hostels, 2 Girl hostels and 01 staff quarter. Now our all entry points are under CCTV surveillance.

Digital Smart Classroom:

We have converted two classrooms into smart classrooms, which includes interactive white board, green board, projector, PC with internet connection having 15 minutes backup in case of electricity failure, sound system, Wi-Fi, etc…

Covid 19 Cart:

RMCET students and staff developed a Bluetooth controlled Cart. Health workers working in Covid Centers are always required to take care of their health too. But their direct contact with such patients may cause infection to them. Considering this problem, our students developed a Cart in College using engineering knowledge and College workshop facility. This Cart was able to deliver up to 80 kg of goods in 100-meter distance.

This Cart was donated to Tahsildar Sangmeshwar for local Covid Center. Collector of Ratnagiri district took a note of it and called us for demonstration. On seeing the working and usefulness, he suggested some modification as per their requirement and ordered for 5 Carts for Covid Centers of Ratnagiri district, sanctioning Rs.25, 000.00 per Cart. We have delivered the same in time as per the order.

File Description	Document
Upload Additional information	[View Document](#)

6.2.2 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Upload supporting document	[View Document](#)

6.3 Faculty Empowerment Strategies

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

Response:

Welfare Schemes:

The institution has following welfare measures for teaching and non-teaching staff.

1. Concession in fee and relaxation in time for payment of fee for their wards.

2. Financial assistant in case of medicaltreatments.

3. Guarantor against Loanliability.

4. Residential Staff quarter on nominal rent.

5. Free of cost Primary Medical facility in campus.

Performance Appraisal System:

The Performance Based Appraisal System (PBAS) is adopted by the college as per the UGC guidelines for the teaching staff. Hence it is ensured that information about multiple activities is appropriately captured and considered for Career Advancement Scheme (CAS) promotion. The head of department and Principal give their remarks on the performance of faculty member.

The information of PBAS includes:

1. General information and academic background, courses/STTP/FDP attended during the year
2. Academic performance information – Teaching learning and evaluation related activities, co-curricular, extension, professional, development related activities, Research, publication and academic contributions.

We have designed the staff appraisal Performa for Non-teaching staff of our college. The non-teaching staff members were graded on five point scale by the concern head of department. The appraisal was taken annually and maintained the record in college office.

We have performance appraisal system for non-teaching technical staff members based on the following parameters.

1. Technical knowledge and Skills
2. Commitment & sense of Responsibility
3. Communication
4. Job Performance
5. Laboratory Maintenance

6. Regular & punctual on his duty
7. Overall Behavior/Attitude
8. Additional Responsibilities & its accomplishment
9. Dedication towards the work
10. Relationship with his subordinates and superiors

File Description	Document
Upload Additional information	[View Document](#)

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

Response: 19.11

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**

2021-22	2020-21	2019-20	2018-19	2017-18
0	3	11	19	14

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 17.38

6.3.3.1 **Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
15	0	5	45	8

6.3.3.2 **Number of non-teaching staff year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
27	28	39	40	40

File Description	Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The Institute conducts both Internal Audit and Statutory Audit. The Statutory audit is conducted by M/s. S R Pandit & Co., Chartered Accountants, Pune, which has professional standing of 40 years and good exposure to audit of educational institutes. During the Covid 19 affected periods of two years, the scale of educational activities were substantially reduced therefore scope and coverage of internal audit was comparatively less. The purpose of internal audit is to early detection of mistakes and timely taking corrective action.

The scope of statutory audit is to ensure financial state of affairs of the Institute as on date of balance sheet and operating results during the year under consideration. The statutory audit also ensures compliance or otherwise with various applicable provisions under The Maharashtra Public Trust Act and Income Tax Act and other applicable Acts. The Statutory audit also reports on whether the Institute complies with applicable accounting standards issued by the Institute of Chartered Accountants of India. The responsibility of compliance with audit objections is entrusted to the respective institutional head and Board of Trustees. The compliance report is also sent to the Statutory Auditors.

File Description	Document
Upload 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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The internal quality assurance cell is established in college to maintain and enhance quality of education. It sets benchmark and focuses on achieving the goals of the college as mentioned in vision & mission.

Academic Audit of Departments:

The college has designed the Academic Audit (AA) format along with detail guidelines. The IQAC conducts the Academic Audit every year. Following is the detail procedure to conduct the Audit,

1. IQAC forms committee for conducting the academic audit

2. The committee will prepare the schedule for conducting the audit

3. As per the schedule committee will visit to each department and check all NAAC files and personal file of each faculty.

4. The committee submit its report to IQAC and it will be discussed in IQAC meeting.

5. IQAC will take necessary action on recommendation of audit report

Training & Placement of Students:

The training & Placement being important aspect for students, the college has established the training and placement cell. This cell is trying very hard to up skill the students & make them employable by conducting many activities apart from their academics. In last Five years the placement ratio is constant & having ups & downs for the streams in the Engineering fields. As market demand changes at very fast pace, institution is also trying to cope up with this pace apart from many constraints. The detailed report is given in supporting documents.

Mentoring of Students:

The activity of students mentoring and counselling is implemented and monitored by head of the respective department. The procedure followed for mentoring is as follows,

 1. A group of approximately 20 students (Mentees) is assigned to the faculty (mentor) at the beginning of academic year.

2. The faculty members regularly interact with mentee students to understand their problems if any and communicate to HOD for necessary action.

3. Due to covid-19, the academic sessions for the year 2020-21 was conducted in online mode. Faculty mentors had a discussion with mentee students through WhatsApp, Google meeting and by calling over phone if required.

Conduct of online classes & Examination through digital mode:

All the theory classes were conducted in online mode using Google meet to benefit the students during

pandemic situation. Faculty member has formed the Google classroom for their assigned subjects. The study material is made available on Google classroom in the form of notes, PPT, eBooks, etc. To conduct Practical we have usind virtual Lababoratory.

All the internal examinations were conducted in online mode using Google form as per the directives from University of Mumbai.

CO-PO Attainment:

All the programs have stated their Program Outcomes and Course Outcomes as per the guidelines of NBA and using Blooms taxonomy. The attainment of CO and PO is based on internal examination and university examination, which consists of internal examinations, Practical, assignments, end semester examination, Tutorials and Projects. The rubrics have been designed for practical, assignments & Projects. We have set benchmark for each Program Outcome (PO) and it will be redefined every year.

File Description	Document
Upload Additional information	[View Document](#)

6.5.2 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)/ membership of international networks**
3. **Participation in NIRF**
4. **any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: B. Any 3 of the above

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Measures initiated by the institution for the promotion of gender equity during the year:

- Women Development Cell (WDC) and Internal Complaints committee (ICC) are active exclusively to encourage the girl students and these committees successfully conduct various activities to serve the society.

- International Women's Day is celebrated every year.

- Seminars, Guest lecture are conducted every year by WDC & ICC committees.

- The institute has a policy of appreciating faculty without gender bias. Women faculty are nominated, based on their ability, as heads of the various committees and satisfying their duties efficiently.

Sr. N0.	Year	Title of the programme	Date and Duration (from-to)	Numb particip
1	2017-2018	Poster competition on "Women Empowerment", Gender Equality"	26/09/2017	19 group (3
2		Guest Lecture on "Gender Equity" by Advocate Girish Ganu, Devrukh during Orientation programme of Internal Complaint Committee.	31/08/2018	8
3		Skit on "Aaj ki nari sab pe bhari" at Madhyamik Ashramshala Jr. College, Nive Budruk.	01/03/ 2019	19
4		Marathi Essay Competition on "women in changing world of work" and "Equality of women in progress of all"	15/03/ 2019	1
5		Seminar on Women Empowerment	31/08/2018	9
6		Seminar on "Dignity of Women"	28/09/2018	3
7		International Woman's Day Celebration	08/03/ 2019	All Girl Stu Lady F
	2018-2019			
8	2019-2020	Orientation programme of Internal Complaint Committee.	28/08/ 2019	12
9		A session on Stress Management	09/01/2020	10
10		A medical camp on & Health of Girls	02/03/2020	10

| 11 | 2020-2021 | Online "GK Quiz on Women's Day" | 08/03/2021 To 13/03/2021 | 16 |
| 12 | 2021-2022 | Woman's Day Celebration | 8/03/2022 | All Girl Stu Lady F |

Institute celebrates/ organizes national and international commemorative days, events and festivals.

National festivals play an important role in planting seed of Nationalism and Patriotism among the students and other peoples. Our Institute celebrates these days/ events with great enthusiasm. The faculty & students come together to celebrate these days and pay tribute to the National Heroes/Leaders.

Such celebrations spread the message of Unity, Peace, Love and Happiness. Institute believes in celebrating such events and festivals in the college campus.

Our Institute also believes that along with education, such types of celebrations will allow the students to bloom & blossom. Students get the right platform to work together to become responsible citizens.

Every year the Institute celebrates Independence Day, Republic Day. Engineer's Day, Teacher's Day etc.

Sr. No.	Events	Dates
1	Yoga Day	21 June
2	Independence Day	15 August
3	Republic Day	26 January
4	Teachers Day	5 September
5	Engineers Day	15 September
6	Online seminar on "Health and Happiness"	21 June2021

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

7.1.2 The Institution has facilities and initiatives for

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	[View Document](#)

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Response: C. Any 2 of the above

File Description	Document
Upload supporting document	[View Document](#)

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized inside the college promote harmony towards each other. Commemorative days like Women's Day, Yoga Day are celebrated in the college. Every year the Institute conducts several programs for providing an inclusive environment.

The Institute celebrates the cultural and regional festivals, like Navratri, Shiv Jayanti, Yoga Day, Women's Day, teacher's day, Guru Pournima, Fresher Party, Orientation and farewell program, Induction program, plantation etc.

Besides academics, cultural & sports activities are also conducted every year in the campus. Cultural events like Traditional Day, Formal Day, Group alike Day, Friendship & Chocolate Day, Odd day along with cultural programs are arranged for enhancing the Creativity, diversity and artistic quality among students. To cater to the linguistic diversity, all student related competitions like Essay Writing, Debate, GDPI, Spelling are conducted in three languages, Marathi, Hindi, and English.

Different sports activities are also organized. These activities are given a name "Aarohan".

Institute also celebrates Birth anniversary & Death Anniversary of great Indian leaders.

Institute designs various activities to create awareness about the national identity and symbols.

Every year the Institute celebrates Independence Day & Republic Day, Engineer's Day, Teacher's Day etc.

Our Institute organizes a Blood Donation Camp on the occasion of College Foundation Day.

Various committees like NSS, Nature club organizes various events like Swatchata Abhiyan, Voter's awareness, social awareness speeches, nature trails, environment related seminars, plantation etc.

The Institute distributes free Kokam syrup & Tilgul at Marleshwar and NSS Students carry out SWACHATA ABHIYAN at Marleshwar.

During the Pandemic situation for the use of Covid 19 treatment center Robo Cart was developed & delivered to civil hospital Ratnagiri by our Institute.

Each AICTE approved college is expected to prepare a minimum number of faculty to teach UHV-I and UHV-II. Only certified faculty members are eligible to teach the UHV courses. For this purpose, we have suggested to our faculty members to complete the UHV course. By considering the above requirement, 4 teachers have completed an off-line UHV course and 16 teachers have completed an online UHV course. Few teachers have registered for the same.

Sr. No.	Events	Dates
1	Death Anniversary of Lokmanya Tilak	1 August
2	Independence Day	15 August
3	College Foundation Day	17 August
4	Teachers' Day Celebration (Birth Anniversary of Dr. Sarvepalli Radhakrishnan)	5 September
5	Engineers Day	15 September
6	Madam Cama and Madan Lal Dhingra Jayanti	25 September
7	Jayanti of Lal Bahadur Shastri & Gandhi	2 October
8	Dr. A.P.J. Abdul Kalam Birth Anniversary	15 October
9	Sardar Vallabhbhai Patel Birth Anniversary	31 October
10	Death Anniversary of Lal Bahadur Shastri	11 January
11	Birth Anniversary of Rajmata Jijau and Swami Vivekanand as "Youth Day"	12 January
12	Republic Day	26 January
13	Shivjayanti	19 February
14	Marathi Bhasha Din	27 February
15	Bhagat Singh, Rajguru, Sukhdev Balidan Din	23 March
16	Birth anniversary of Dr. Babasaheb Ambedkar	14 April

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

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice No: 01

Title of the Practice: Encouraging students to participate in state and national level technical competitions.

The Context: The institute encourages the students to develop the various technical skills to face the competition at state or national level. Due to the participation in different competitions the students can become more competitive by learning the different advanced technologies. Therefore, the institute is supporting persistently to the students to participate in the technical competitions.

Objectives:

- To promote the students to participate in state and national level technical competitions.
- To develop the skill of innovative thinking.
- To develop the skills of working in a team or a group.
- To encourage the students to present their idea or project model effectively in the competition.
- To learn the emerging technologies.

The Practice: The institute/department makes the announcement regarding the technical competitions among the students well in advanced. The departmental coordinator collects the information about the interested students and makes the group and submits the details to institute level coordinator for further processing. The institute level coordinator submits these proposals to the principal. The eligible and suitable groups teams are selected. The selected groups will be asked to participate in the competition. The institute provides the monetary support to the eligible groups. The institute appreciates the efforts of the competition winners and their guides.

Evidence of Success: The certificates and trophies of the participants are collected and maintained at the respective department. Also, some models are displayed in the respective department.

Obstacles faced if any: Some project (MH08 Formula car) required more fund for designing the car and participating into international competition so the fund is raised by sponsorship and support from the teaching and non-teaching faculty members.

Impact of the practice: The students have participated in various competitions and won the prizes.

- "Craig Dawson Most Valuable Team Member Award" on 20th July 2019 to Team MH-08 Racing by Formula Student United Kingdom 2019.
- Winner of Lightest race car Formula Student United Kingdom 2019 of India in the year 2018, held at Kari Motors Speedway, Tamil Nadu.
- Team MH-08 Racing has got 27th National Ranking by Formula Bharat 2020 on 28th January

2020.
- Formula Karting Design Championship (FKDC3) Pune2019
    - 8th rank in Design Report & Skid-Pad Test
    - 7th rank in Cost report
    - Overall 11th rank

- Formula Karting Design Championship (FKDC4) Coimbatore 2019
    - 2nd rank in Cost Report, Design & CAE Report, Autocross Test
    - Overall 5th rank
- AICTE-ECI-ISTE Chhatra Vishwakarma Awards-2018.
- Formula Bharat 2020.
- Formula Student EV Concept Design Challenge 34th rank
- Avishkar Research Convention, University of Mumbai
- A National level event RIT Hackathon - 2K19.
- SMART INDIA HACKATHON 2019.

Resources Required: The respective department laboratories with required amenities, library and faculty advisor.

Best practice No.: 02

Title of the Practice: Promoting students to undergo the Industrial Internships.

The context: The sole objective of internship is to create awareness about the latest trends in industries and also provide opportunity to complete the final year project work based on industrial requirements. The internship may be in the form of Skill based training/Mini Projects/Project based Learning/Task oriented internship etc. Engineering being a professional education programme needs exposure to the latest developments in Industries and bridge the gap between Industry and Academia. To understand the practical implications of the theoretical concepts, it is necessary to undergo Internships/Industrial Training in variety of organizations /Industries. Many universities curriculum itself is blended with specific credits assigned to Industrial training. Unfortunately, University of Mumbai curriculum lacks this component. Hence, RMCET has taken the initiative to promote the students to undergo Industrial Internships after Second- and Third-year exams.

Objectives of the practice: RMCET has started the policy of promoting the students to undergo Industrial Internships with the following objectives:

1. To understand the practical implications of the theoretical technical concepts.
2. To create awareness about the latest trends and developments in technology.
3. To encourage students to select their final year project based on the industry requirements.
4. To bridge the gap between industry and academia.
5. To inculcate professionalism in the students by observing the working culture and industrial protocols.
6. To enhance the employability of students.

The practice: The process of promoting the students to undergo industrial training is carried out in following manner.

1. Industry Institute Interaction Cell (IIIC) has been established to promote the industrial training and internships to student.
2. Notifying the students of Second- and Third-year engineering in the month of March to identify the probable industries to undergo Industrial training.
3. IIIC Coordinator of every department receives the applications for industrial training letter and issues the letters to the concerned students.
4. Students undergo the industrial training for minimum two weeks duration during December and June/July month after completion of their semester examinations.
5. The IIIC Coordinator of every department receives the industrial training reports from individual student.
6. In consultation with the HOD, IIIC Coordinator of every department conducts the presentations of industrial trainings to verify the learning outcomes through the industrial training.

Obstacles faced if any and strategies adopted to overcome them:

Obstacles faced:

1. As Industrial Internship is not included in the university curriculum, there is a casual approach and ignorance from students.
2. The region in which college is situated is geographically remote and has very few industries which makes it difficult for students to undergo industrial Internships.
3. Industries are not showing much interest in extending the industrial Internships to students.

Strategies to Overcome the obstacles:

1. Counselling the students through various interactions regarding the importance of industrial trainings.
2. Encouraging students for industry-based projects for final year.
3. Maintaining relationship with the authorities at various industries through Industry Institute Interaction Cell.

Impact of the practice: The policy of promoting the students to undergo industrial training has been well received by students and more than 60% students are undergoing the industrial training regularly. Few students have received final year projects based on the actual industrial requirements.

- Academic Year   Number of students completed internship
  - 2019-2020   45
  - 2020-2021   30
  - 2021-2022   161
- **Resources required** NA

File Description	Document
Best practices as hosted on the Institutional website	[View Document]
Any other relevant information	[View Document]

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

7.3 Institutional Distinctiveness

RMCET is one of the premier institutes in Konkan region, located on 46.25 acres of land at village Ambav, about 7 Km. from Devrukh city. The campus includes Administrative, Instructional Area, Work Shop, Laboratories, Library and Residential buildings etc. area admeasuring 20461 Sq. mtrs. This College is a fully developed residential engineering college. Institute is having 5 boy's hostels, 2 girl's hostels, staff quarters & principal bungalow. In campus ATM facility is available for the residents.

It has also received the Best Campus Award for the year 2018. Institute is ranked under the gold category in AICTE-CII Survey for the year 2016 ,2017 and 2020. It has also ranked in the list of Best Private Engineering colleges in India Today-MDRA Survey consecutively for four years i.e.in the year 2018,2019,2020 and 2021.

Institute has received the ISTE Best Campus Award for the year 2018. It is also ranked among first 100 colleges across India for excellence in up-keeping well-being of faculty, staff and students in MHW Ranking conducted by R-World Institutional Ranking.

Needy and meritorious students are offered Tuition fee and Hostel fee waiver Schemes. So, Students from rural area get the benefit of these facilities.

Beside academics, cultural & sports activities are also conducted every year in the campus. Cultural events like Traditional Day, Formal Day, Group alike Day, Friendship & Chocolate Day, Odd day, no vehicle day along with cultural programs are arranged for enhancing the Creativity, diversity and artistic quality among students. To cater to the linguistic diversity, all student related competitions like Essay Writing, Debate, GDPI, Spelling are conducted in three languages, Marathi, Hindi, and English. Indoor Sports like Table-Tennis, Chess, Carrom & Outdoor Sports like Cricket, Basketball, Volleyball, Throwball, Football is also arranged in the campus.

Solar Energy is used for providing hot water in hostels. The solar water heating system has a capacity of 11,000 litter which saves the electricity consumption by 1,65,000 Units i.e., approximately Rs. 17, 32,500/- per year. The college has a Renewable Energy Club currently working to creates the awareness of the renewable energy sources. Grid connected solar roof top PV system of 50.16 Kwp is installed. 50Kwp of solar PV system generates approximately 200 units per day on clear and sunny day if (MSEB) grid light is available.

Institute is encouraging students to participate in state and national level technical competitions. As a result, students take part in various events & get the prizes.

Institute conducted Zonal/District level 51st, 52nd & 55th Inter Collegiate/ Institute/ Department Cultural Youth Festival for Ratnagiri South Zone for the Academic Year 2018-19, 2019-2020 & 2022-2023.

Automobile Engineering department have advanced lab instruments like Computerised Wheel Alignment Machine & Computerised Wheel Balancer in Vehicle Maintenance Laboratory.

All departments have their student association like Autotrendz by Automobile Engineering Department, ACE by Computer Engineering Department, ELITE by EXTC Engineering Department and MESA-Mechanical Engineering Department. Department of Electronics & Telecommunication has taken an initiative to encourage the students to work on the projects related to electronics that will be useful for the society in day-to-day life. Students who are interested to learn modern tools of engineering enrol their names in 'e-Club'. RMCET is the first educational college in the University of Mumbai to start the RTO Authorized Motor Driving School for the students and citizens staying nearer to the College. Department of Automobile Engineering has taken an initiative to start this activity in the College to train their students. Later, this facility was extended to the society. After registration, on successful completion of training, permanent license is issued by the RTO authorities. Due to less response, recently it is closed.

 Similarly, Institute provides Online examination facility to the public. Online exams like JEE mains, GATE, MBA CET, Finance, MHT CET, Mahavitaran, ITI, DTE MED, Mahaonline Talathi, NPTEL, MMMOCL Exam, BSC Exam, BOI, IDBI bank, Forest, SBI, IBPS DHE, IIFBUGC NET, IBPS CSIR are conducted in the college. The resources like computers of the Institute are utilized for this purpose. Through the conduction of online exams, the service is provided to the rural students as they get the nearby exam centre.

RMCET being residential college, it helps students in developing their personality in all respect.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)
Any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

It is our proud privilege to mention that our college has been ranked in the gold category in AICTE-CII survey for Best Industry Linked Institute, in the year 2016,2017 and 2020.

Also, it is ranked in the list of Best Private Engineering colleges in India Today-MDRA Survey consecutively for four years i.e.in the year 2018,2019,2020 and 2021.

Our college has received the ISTE Best Campus Award in the year 2018.

It is also ranked among first 100 colleges across India for excellence in up-keeping well being of faculty, staff and students in MHW Ranking conducted by R-World Institutional Ranking.

Concluding Remarks :

It is really a great opportunity for our college to get assessed and accredited by National Assessment and Accreditation Council (NAAC) in the second cycle for sustaining the quality of education.

Our college has developed the necessary infrastructure and amenities coupled with encouraging setting for academic recreation of students. The vision of the college is to empower the rural youth for better employment by providing quality engineering and management education.

We are sincerely working within the framework of our vision and missions for last 24 years. The results are encouraging but we realize to move further towards the quality and excellence. In this travel, the NAAC assessment will provide us proper guidance and direction.