



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr. Mahesh M. Bhagwat
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02354269609
Mobile no.		9421228868
Registered Email		info@rmcet.com
Alternate Email		principal@rmcet.com
Address		Ambav (Devrukh), Tal- Sangmeshwar
City/Town		Ratnagiri
State/UT		Maharashtra
Pincode		415804

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Mr. Dipak M. Satpute
Phone no/Alternate Phone no.	02354269400
Mobile no.	7620930799
Registered Email	info@rmcet.com
Alternate Email	iqac@rmcet.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://rmcet.com/rmcet/assets/data/iqac/AQAR%202018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://rmcet.com/rmcet/assets/data/academic_calender/AC_2019-20.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.60	2017	27-Nov-2017	27-Nov-2022

6. Date of Establishment of IQAC	24-Sep-2015
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Submission of AQAR	25-Feb-2020	143

	365	
Participation in NIRF	05-Dec-2019 365	55
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	Nil	Nil	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Organisation of Zonal level Youth Festival on behalf of University of Mumbai
2. Development of remote cart to cater the needs at covid center
3. Encouraging students to participate in technical competitions

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

Plan of Action	Achievements/Outcomes
To encourage students for competitions	Achievement: Team MH08 Racing: Team MH08 racing represented India at International podium by participating in formula student UK Competition at

Silverstone Circuit UK. Team was among the 33 teams out of 81 teams to clear technical scrutineering. Team captain Mr. Pranit Watve won prestigious Craig Dawson Award for Most Valuable Team Member 2019 along with the team's following credential • 32nd rank in Business plan presentations among 81 international teams • 55th rank in Cost event among 81 international teams • 36th rank in Design event among 81 international teams. • Overall world ranking is 43rd among 81 international teams. Team has cleared the toughest scrutineering tests like ? Technical inspection ? Chassis inspection ? Safety inspection ? Tilt test Formula Bharat 2020: Formula Bharat is the national Formula Student competition held at kari motors speedway, Coimbatore in the January 2020. Team MH08 Racing has cleared all the technical scrutineering as well as the static events like design presentation, Cost presentation business plan presentation. Achievements: 1. Design Presentation: 15th rank among 70 national teams 2. Cost Evaluation: 28th rank among 70 national teams 3. Business Plan presentation: 26th rank among 70 national teams 4. Overall national ranking 27th among 70 national teams Team Full Throttle: Formula Kart Design Challenge 2019 held at Coimbatore in October 2019 by FMAE. Team's Achievements: 1. Design Presentation: Runner Up 2. Cost Report: Runner up 3. Autocross: Runner Up 4. Overall: 5th among 48 national teams

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Directors	15-May-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission	2020
Date of Submission	15-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Yes - Partial There are separate modules of MIS under ERP at Administrative Office, Accounts Department, Library Examination Section. 1. Office Admin - SQL with dot net frame work 2. Accounts - Tally and Office excel 3. Library - Easylib Software 4. Examination dept - SQL server with dot net Frame work

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

We adopt the curriculum overview provided by the Mumbai University. Depending on our resource potentiality, institutional goals and concern towards the students, we impart quality education. The institution has developed a structured and effective implementation of the curriculum. Following are the various means through which it executes the curriculum. 1. HOD's Meeting: HOD's Meetings are held once in 15 days. Head of the Department discuss their action plans with the faculty members and guide regarding execution of it in optimal and effective way. 2. Academic Calendar: Academic Calendar is prepared as per the Mumbai University academic schedule and the requirements at the department level as per the action plans formed 3. Lesson Plan: A Lesson plan includes course outcomes, course objectives, content topics, reference books and the expected outcomes from the students by learning through the topics prepared by respective faculty members at the beginning of each semester. It gives an insight how the lecture class will be handled throughout the semester. 4. Meeting the Vision and Mission of the Concerned Department: Each department sets their own Vision and Mission which match with the Institutional Vision and Mission. 5. Program Educational Objectives (PEO) and Program Outcomes (PO) are developed for each program and Course Objectives (CO) and course outcomes are defined for each course.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
IOT using Arduino Raspberry PI its real time Application	Nil	03/01/2020	03	Employability	Y

Basic Communication	Nil	Nil	05	Employability	Y
Aptitude test	Nil	Nil	05	Employability	Y
CRTTP	Nil	Nil	05	Employability	Y

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	Nil	Nil
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	final year Automobile Engineering	01/07/2019
BE	final year Computer Engineering	01/07/2019
BE	final year Electronics and Telecommunication Engineering	01/07/2019
BE	final year Mechanical Engineering	01/07/2019
BE	first year Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	687	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Nil	Nil	Nil
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1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Automobile Engineering	70
BE	Electronics and Telecommunication Engineering	24
BE	Computer Engineering	72
BE	Mechanical Engineering	34
MMS	Management	51

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained

Institute conducts online feedback of curriculum by the faculty, student, parent and alumni after every revision of syllabus. The curriculum feedback is taken by sharing google form link to faculty, student, alumni and parent. The faculty gives the feedback of courses they taught based on questions like whether the syllabus bridge the gap between industry and academics, subject content, skill improvement etc. The students gives feedback for all the course and practical courses taught to them in the semester. The general assessment points of the feedback based on question based syllabus, adequacy of syllabus, Sufficient reference material, earning values in terms of skills, concepts, knowledge, equipped with necessary technical skills etc. Alumni also fill Feedback online through the shared google form link. The alumni feedback form based on questions adequacy of practical content in the curriculum, introduction of additional syllabus content and coverage required for industries in curriculum etc. The parent feedback highlights evaluation parameters in the form of quality of courses and relevance, availability of resources of courses etc. This feedback is also taken on a 5 point scale on poor, average, good, very good and excellent. The analysis of this feedback helps institute in reframing the course content and various skill development training. It helps in determining overall employability of our students at various levels.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MMS	MANAGEMENT	60	32	32
BE	ELECTRONICS AND TELECOMMUNICATION ENGINEERING	60	4	4
BE	COMPUTER ENGINEERING	60	36	36
BE	MECHANICAL ENGINEERING	60	18	18
BE	AUTOMOBILE ENGINEERING	60	7	7

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	666	83	44	3	2

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
47	47	9	6	Nil	12

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

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

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

Yes, Mentoring Scheme is implemented in the institute. ? 16 to 18 students are assigned to a faculty member who acts as their mentor for the entire programme duration. ? Mentor regularly interacts with the students and monitors their academic performance and attendance. ? The students are given guidance for career, personal, besides academic issues. ? The meetings of mentorship are conducted twice a semester. ? Students with many issues are asked to call parents for parents- mentor meetings. ? Academic Monitoring Committee observes academic regularity of students and accordingly takes action against them, if require. ? Students are supported and guided both in co-curricular and extracurricular activities. ? Parents are informed about the performance of their ward through the monthly parents' letters. ? Students at the risk of drop out are identified through mentoring mechanism and extra coaching classes of the concerned subjects are conducted for them.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
749	42	1:18

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
54	30	24	17	2

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Rahul Vishwanath Dandage	Associate Professor	Top 50 Experts Wall of Fame

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	1T00218	VIII	17/10/2020	24/11/2020
BE	1T01418	VIII	17/10/2020	24/11/2020
BE	1T00718	VIII	17/10/2020	24/11/2020
BE	1T01018	VIII	17/10/2020	24/11/2020
MMS	2M00734	IV	10/10/2020	09/11/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

? The institute has a college level Exam committee and a department level internal exam committee. The exam committee works under the supervision of the Head of the institute. ? The institute exam committee takes the overall responsibility of conducting the end semester examination, the evaluation of answer sheets, moderation of answer sheets and preparing the results. ? Every department has an internal exam committee responsible for the preparation of Timetable, setting of the question paper based on course outcomes and declaration of the results of internal tests. ? After evaluation of internal tests, the answer sheets are shown to the students for any grievances. The grievances of the students are considered and looked into at the department level. ? 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, 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 each practical and tutorial are based on the parameters: performance, lab ethics, self-learning initiative, conceptual understanding, punctuality and attendance. ? Course wise percentage attainment of outcomes is calculated based on the Internal Assessment of exams - I II, term work, tutorials, assignments, course exit survey, and end semester result. ? After completion of university examination, Unfair means meeting is conducted in each semester and report of the same is submitted to Head of exam committee. ? Final year last semester theory, practical and oral examinations was conducted through online mode, on account of the Covid-19 situation.

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

Before the start of every academic session, IQAC meeting along with Heads of all the Departments is conducted for preparation of A.C. College academic calendar is designed considering all events in accordance with the University academic calendar. In all 15 weeks are planned which mainly include: ? commencement date ? dates of internal examination I and II ? college festivals ? Sports cultural activities ? Student's online feedback ? Letter to parents ? submissions ? oral / practical exams ? University theory exams ? AMC meeting ? Parent -Teacher meeting ? Graduation day ? Closing date of the term etc. Principal and all HOD'S are ensuring proper execution of academic calendar and teaching-learning process. It monitors all parameters right from attendance, (75 attendance is mandatory as per University rules), internal tests, assignments, practical's / labs. List of defaulter students is notified fortnightly and the parents are informed. Teachers are supposed to maintain

course files of their subjects. Faculty conducts lectures and practical's as per the timetable in alignment with the academic calendar.

2.6 – Student Performance and Learning Outcomes

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

<http://rmcet.com/rmcet/assets/data/igac/PEO's,%20PO's,%20PSO's%20&%20Course%20outcomes.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1T00718	BE	COMPUTER ENGINEERING	42	42	100
1T01418	BE	MECHANICAL ENGINEERING	76	75	98.68
1T00218	BE	AUTOMOBILE ENGINEERING	55	55	100
1T01018	BE	EXTC	22	22	100
2M00734	MMS	MANAGEMENT	52	52	100

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2.7 – Student Satisfaction Survey

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

<https://docs.google.com/forms/d/lyEPOvZZJskqcfvaRTz-PkvUoiotT5mzskSRMLitrBXg/edit>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Interdisciplinary Projects	365	RM CET	7.82	7.82
Minor Projects	365	University of Mumbai	0.44	0

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Blockchain, IOT Industry 4.0	Computer Engineering	01/02/2020
Final Year Project and Importance	Computer Engineering	15/02/2020

Technical Seminar on "Recent Technologies in Electronics Telecomm.	Electronics and Telecommunication Engg.	30/09/2019
03-Days Intensive Workshop on "IOT using Arduino, Raspberry-Pi and it's real time applications"	Electronics and Telecommunication Engg.	03/01/2020
Seminar on "Ventilation Engineering"	Mechanical Engineering	09/07/2019
Expert seminar with title of "Renewable Energy in Marine Environment"	Mechanical Engineering	02/08/2019
One Day Workshop on Introduction to IC Engine Components and Maintenance"	Mechanical Engineering	14/10/2019
A Seminar on "Piping Design Engineering Construction"	Mechanical Engineering	30/01/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
27th National Ranking among 70 teams	Team MH 08 Racing	Formula Bharat 2020	28/01/2020	National
Craig Dawson Most Valuable Team Member Award	Mr. Pranit Devkumar Watve (Team MH 08 Racing)	Formula Student United Kingdom 2019	20/07/2019	International
Best Research Paper Award	Dr. Dandage R.V.	RM CET	23/02/2020	Local
Best Teacher Award	Dr. Dandage R.V.	RM CET	17/08/2019	Local

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nil

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical	3	6.11
International	Automobile	1	1.98
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
MMS	3
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Strategy development using TOWS matrix for international project risk management based on prioritization of risk categories	Dr. Dandage R.V.	International Journal of Managing Projects in Business (IJMPB-Emerald Group Publication)	2019	3.2	Rajendra Mane College of Engineering Technology and Sardar Patel College of Engineering, Mumbai, India	9
Expert System for Helical Torsion Spring Design	Dr. S.N. Waghmare	Journal of Interdisciplinary Cycle Research (JICR)	2019	Null	Rajendra Mane College of Engineering Technology	Null
Design Reuse for Designing Modelling of Helical Tension Spring	Dr. S.N. Waghmare	The International journal of analytical and experimental modal analysis (IJAEMA)	2019	Null	Rajendra Mane College of Engineering Technology	Null

Product Design Knowledge Reuse	Dr. S.N. Waghmare	International Journal for Research in Engineering Application Management (IJREAM	2019	Nil	Rajendra Mane College of Engineering Technology	Nil
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Strategy development using TOWS matrix for international project risk management based on prioritization of risk categories	Dr. Dandage R.V.	International Journal of Managing Projects in Business (IJMPB-Emerald Group Publication)	2019	3	9	Rajendra Mane College of Engineering Technology and Sardar Patel College of Engineering, Mumbai, India
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	17	Nil	Nil
Presented papers	3	Nil	Nil	Nil
Resource persons	Nil	3	Nil	3
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities

Celebration of International Yoga Day	NSS Unit of RMCET	15	7
Tree Plantation Programme in Nive School College	NSS Unit of RMCET Nive Ashram School	2	15
Blood Group Checking Blood donation camp	NSS Unit of RMCET Civil Hospital Ratnagiri	4	9
Swatchhata Abhiyan	NSS Unit of RMCET	3	35
Program on Road Safety	NSS Unit of RMCET RTO Ratnagiri	1	37
NSS day celebration	NSS Unit of RMCET	3	52
Program on Aids awareness	NSS Unit of RMCET Civil Hospital Devrukh	2	51
Swatchhata Pakhwada	NSS Unit of RMCET	2	30
Program on Water conservation	NSS Unit of RMCET	2	3
A Seminar on Stress Management	DLLE unit of RMCET	2	64

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Student's Participation in UDAN The flight of Extension 2019-20	Third Prize	University of Mumbai	15

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS	NSS Unit of RMCET Civil Hospital Devrukh	Program on Organ Donation	2	48
NSS	NSS Unit of RMCET and Mumbai University	Program on online Aids awareness	2	32
DLLE	DLLE unit of Mumbai	Student's Participation	3	15

	University	in UDAAN- The flight of Extension 2019-20	
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
MoU with Mechanical Engineering Department Rajendra Mane Polytechnic, Ambav . for Faculty Exchange	Students & Faculty members Mechanical Engineering department	Self Financed	365
MoU with Mechanical Engineering Department Yashwantrao Bhonsale Polytechnic, Sawantwadi, Sindhudurg for Faculty Exchange	Students & Faculty members Mechanical Engineering department	Self Financed	365
MoU with Mechanical Engineering Department Sahyadri Polytechnic, Sawarde, Technical Campus, Vahal Phata, Tal-Chiplun, Dist-Ratnagiri for Faculty Exchang	Students & Faculty members Mechanical Engineering department	Self Financed	365
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training	Technical Training	Learning Exped, Mumbai	17/08/2019	16/08/2020	Computer Engineering students
Training	Technical Training	CADCAMGURU Solutions Private	09/08/2019	08/08/2020	36 students of B. E.

		Limited, Pune			Mechanical and 2 faculty members
Training	Technical Training	PROLIFIC systems and technologies pvt ltd,pune.	18/08/2019	17/08/2020	40 students of T. E. B. E. EXTC and 1 faculty member
Industry sponsored Project work of Final Year students	Project Work	Indian Biodiesel Corporation, Baramati, Dist. Pune.	09/09/2019	08/09/2020	08 students of B. E. Mechanical Engg.
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Mechanical Engineering Department Rajendra Mane Polytechnic, Ambav .	09/08/2019	Purpose: Faculty Exchange Activities: Workshop conducted by faculty of RMP.	48
Department of Mechanical Engineering Yashwantrao Bhonsale Polytechnic, Sawantwadi, Sindhudurg (Mh) 416510,	21/01/2020	Purpose: Faculty Exchange Activities:Seminar and Expert lecture delivered by faculty of Mechanical Engg. Dept.	2
The Department of Mechanical Engineering Sahyadri Polytechnic, Sawarde, Technical Campus, Vahal Phata,	06/03/2020	Purpose: Faculty Exchange Activities:Seminar delivered by faculty of Mechanical Engg. Dept.	1
CADCAMGURU Solutions Private Limited, Pune	09/08/2019	Purpose: Technical Training Activities: Seminar conducted by faculty of CADCAMGURU.	37
PROLIFIC systems and technologies pvt Ltd., pune.	18/08/2019	Purpose: Technical Training Activities: Expert	41

		Talk delivered by Prolific system Technologies Private Ltd	
Indian Biodiesel Corporation, Baramati, Dist. Pune.	09/09/2019	Purpose: For Industry Sponsored Projects	8
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
0	0

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
EASYLIB Advanced MultiUser Software	Fully	1.0	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	27041	7729946	26	16536	27067	7746482
Reference Books	1693	757989	4	15867	1697	773856

e-Books	370	Nill	Nill	Nill	370	Nill
Journals	Nill	Nill	36	127185	36	127185
e-Journals	1	69000	Nill	Nill	1	69000
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	502	Nill	Nill	Nill	502	Nill
Library Automation	1	100000	Nill	Nill	1	100000
Weeding (hard & soft)	141	43238	9	2890	150	46128

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. M.Y. Gadkari	Google Tools	YouTube	15/02/2020
Mr. Parkar V. V.	Human Machine Interaction	Blog	20/01/2020
Mr. Parkar V. V.	Computer Organization Architecture	Blog	20/01/2020
Mr. Parkar V. V.	Computer Network	Blog	15/07/2019
Mr. Parkar V. V.	Business Communication and Ethics	Blog	15/07/2019
Dr. Rahul Dandage	Project Management	Google classroom	25/04/2020
Mr. Belekar Rahul D.	Engineering Drawing	You Tube	25/04/2020
Mr. Rawool Swapnil D.	Chassis Body Engineering	Edmodo	30/04/2020

[View File](#)

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	347	16	16	0	1	1	5	70	0
Added	0	0	0	0	0	0	0	0	0
Total	347	16	16	0	1	1	5	70	0

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

70 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Media Center	https://drive.google.com/file/d/1-PXTWhgqz3_vc0BzPOoSU7gTXOsIkyL8/view

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
20.16	6.82	17.7	12.8

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Procedures and Policies: There are well established procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. Adequate academic, physical and support facilities are available in the campus. In order to ensure their maintenance and optimum utilization, various systems and procedures are established to benefit all the stakeholders.

1. Maintenance of Physical Infrastructure and Support facility: Institute believes in maintaining well developed campus infrastructure. To achieve this, Institute Management ensures that the maintenance of the physical, academic and support facilities is carried out in a planned and systematic manner as per the standard policies developed by the Institute.

a) Routine Maintenance: Cleaning, Dusting, and Sweeping of all areas such as classrooms, seminar halls, Laboratories, Library and sports ground is undertaken daily by the contractual and permanent housekeeping staff and is regularly supervised. The Institute has automated cleaning equipment for this purpose. For minor repairs, the Institute has a workforce of Carpenters, Masons, Electricians and Plumbers.

b) Preventive Maintenance:

Painting: The Institute ensures that all the areas are periodically painted.

Air Conditioner: Many areas of the Institute are air conditioned. The maintenance of the Heating, Ventilation, and Air conditioning (HVAC) system is outsourced.

CCTV: The Institute has installed multiple CCTVs on the Campus. The maintenance of the system is outsourced.

Water Tanks / Septic Tanks: All the underground and overhead drinking water tanks are regularly cleaned by respective department and follow up is taken by higher authorities.

Pest Control: The Pest control is done by annual contract with PCI Pest Control Private Limited. The name of the treatment is TermiSeal Service (Post-Con) (Sub-Terranean Termites). Periodical visits are scheduled as per the contract.

2. Maintenance of IT Infrastructure: The Institute has a team of qualified Lab Technicians for efficient management of IT infrastructure on campus. They ensure that the IT infrastructure (including hubs, L1 / L2 Switches, Wi-Fi Routers etc and peripherals) are always in working condition. The Institute has a policy of purchasing branded and assembled desktop. The networking material of brands named D-link, Cisco, iBall and HP and desktop peripherals from reputed companies like Dell, His, Gigabyte, Intel is used. The maintenance for first 3 years is taken care by the vendor/supplier. The Server

and the firewall are covered under the Comprehensive Annual Maintenance contract. Every laboratory maintains a complete record of the equipment such as Dead-Stock Register and utilization Register. All the documents are verified by Lab In charge (a faculty member) and are kept in accordance with the standard procedures.

http://www.rmct.com/rmct/assets/data/iqac/Policy_Document.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institute Scholarship	75	2210649
Financial Support from Other Sources			
a) National	Government Scholarship	561	20218040.5
b) International	Nil	Nil	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Guidance for competitive exam	17/09/2019	15	Mrs.P.P.Kshirsagar, Asst.Prof., RMCET, Ambav.
Guidance for competitive exam	18/10/2019	33	Dr. Waghmare S.N. (RMCET, Devrukh)
Career Counselling	21/09/2019	10	Mr. Waikar P. D. BE Students
Career Counselling	24/09/2019	19	MR. Harshad Kudtarkar TE EXTC Student RMCET
Career Counselling	02/10/2019	27	Mr. Shikalgar, Mr. Adure, Mrs. Kshirsagar Mr. Burshe
Career Counselling	25/09/2019	46	Mr. SivaKumar P.R. – CEO Maven Silicon Bangalore
Career Counselling	13/08/2019	47	Mr. Mohan Gosavi –TPO RMCET
Career Counselling	30/09/2019	37	Mr. Samarjeet Chavan – Director, Jeet Fortunline Pvt. Ltd. Sangli.
Career Counselling	11/10/2019	40	Mr. Vivek Sardal, Director Business

			Head, Prolific system Technologies Private Limited, Pune
Career Counselling	03/01/2020	22	Mr. Tejas Kasare Mr. Rahul Gupta By our Alumni and Founder of Intellect Technologies, Mumbai
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guidance for competitive examinations	15	Nil	Nil	Nil
2019	Guidance for competitive examinations	33	Nil	Nil	7
2019	Career Counselling	10	Nil	Nil	Nil
2019	Career Counselling	19	Nil	Nil	Nil
2019	Career Counselling	27	Nil	Nil	Nil
2019	Career Counselling	46	Nil	Nil	Nil
2019	Career Counselling	47	Nil	Nil	Nil
2019	Career Counselling	37	Nil	Nil	Nil
2019	Career Counselling	40	Nil	Nil	Nil
2020	Career Counselling	22	Nil	Nil	Nil
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
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Nil

Nil

Nil

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
clover infotech, Vadini Infocenter, Pune, APEX Actsoft Technologies Pvt Ltd., Gadre Infotech, Ratnagiri, Sankey Solutions, Thane, Tata Consultancy Services, Pune, Chegg India, Qspiders,	250	39	Finolex Industries, Mahindra CIE Forging Division, Pune, EMITECH Vitesco technology, Remsons Industries Ltd., GodSpe edGaming Solution Pvt ltd., DataBit Technologies Pvt Ltd, Pune, Samarth construction, Dapoli, JSW Jaigarh Port Ltd, Ratnagiri.	18	18
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	Nil	0	0	0	0
No file uploaded.					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
View File	

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

Activity	Level	Number of Participants
Aarohan 2k20: Cultural Program and Sports	Institute	250

Navaratri	Institute	80
Shivjayanti	Institute	60
Youth Festival	Inter Collegiate	19
Engineers day	Institute	80
Dussera	Institute	50
Gokulashtami	Institute	35
Independence day celebration	Institute	70
Tilgul and Kokam Syrup distribution at Marleshwar	Institute	80
Birth and Death Anniversary of Indian leaders and famous personalities	Institute	20
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Business plan presentations-3 2nd Rank	International	1	Nil	Nil	Team MH-08
2019	Cost event-55th Rank	International	1	Nil	Nil	Team MH-08
2019	Design event-36th Rank	International	1	Nil	Nil	Team MH-08
2019	Overall world ranking 43rd among 81 international teams	International	1	Nil	Nil	Team MH-08
2019	prestigious Craig Dawson Award for Most Valuable Team Member 2019	International	1	Nil	Nil	Mr. Pranit Watve
2020	Design P resentatio	National	1	Nil	Nil	Team MH-08

	n-15th Rank					
2020	Cost Evaluation-28th Rank	National	1	Nil	Nil	Team MH-08
2020	Business Plan presentation-26th Rank	National	1	Nil	Nil	Team MH-08
2020	Overall national ranking 27th among 70 national teams	National	1	Nil	Nil	Team MH-08
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Institute has formed Student Council committee. Details of student council are as follow: Student Council: Dr. Bhagwat Mahesh.- Chairperson Mr. Kolekar Suresh - Coordinator Mr. Yadav Sameer- Physical Director Mr. Belekar Rahul- NSS Program Officer Mr. Gadkari Rafik- President Ms Kadam Shraddha- Girl Representative Mr. Kulkarni Omkar- Cultural Student Coordinator Mr. Dhuri Jitesh- Sports Student Coordinator Mr. Desai Sameer- Student Member Mr. Surve Raj- Student Member Ms. Tejashree Ghanekar- Student Member Activities of student council: The Student council organizes various events and competitions for the students which help them to show their potential. It includes teacher's day celebration, organizing live sessions of expertise, coordinating technical competitions like AICTE-ECI-ISTE Chhatra Vishwakarma Award 2018, Smart India Hackathon 2019, etc. Representation of students on academic administrative bodies/committees of the institution: ??ISTE Student Chapter ??SAE ??Renewable Energy Club ??Anti ragging Committee ??Hostel Mess committee ??NSS (National Service Scheme) ??Sexual Harassment Prevention Cell ??Departmental Students Associations ??Library Committee ??ED cell ??IQAC ??DAB ??Magazine committee ??Nature Club

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

College has registered for alumni association with charity commissioner Ratnagiri having registration number "Maharashtra/5832/Ratnagiri" dated 23rd February 2017. It is the flag bearer of the College. Alumni Association is composed of following members: President: Dr. Bhagwat M.M. Vice President: Mr. Shikalgar I.A. Treasurer: Mr. Surve P.S. Secretary: Mr. Joshi V.S. Staff members: Mr. Dongare V.K. Mr. Burshe G.V. Ms. Mangale S.R. Mr. Mane P.L. Mr. Gamare P.S. Mr. Yadav A.B. Student Members: Mr. Bodhe Rahul. Mr. Dongare Hemant Mr. Shedge Nitin Mr. Jagushte Nilesh Mr. Khochare Rahul To maintain bonding between institutes, our alumni contribute in various activities of institution. Major contribution of our alumni is as follow: ??Placement activities. ??As a Resource person for career guidance and personality development of students. ??As a Resource person in areas of their expertise ??Participation in organizing events ??As a Judge/chief guest for the events organized at the College. ??Render Industrial Training and arrange visits to their industries.

Alumni feedback plays a key role in development of college. Alumni feedback is collected through feedback form which is made available on college website, where students can provide feedback in goggle forms and responses are maintained, analyzed and forwarded to the concerned department by head of alumni association.

5.4.2 – No. of enrolled Alumni:

196

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

19600

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni association has conducted Meeting on 22/02/2020 at college. Total 53 alumni attended this meeting. Meeting was chaired by HOD of respective departments and faculty. Objectives: 1. To provides opportunity for alumni to interact with their batch-mates and to relish refresh their past memories. 2. To appeal contribution from alumni for betterment of institution in terms of training, placement, internship, technical programs, etc 3. To know success stories of alumni.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

For performing academic and non academic tasks as well as for carrying out various kinds of activities, different statutory committees have been formed. For every committee there is one head and members from various departments. Committee head conducts regular meetings for planning and execution of the events related to the committee. Committee submit the budget required for organising the events or for smooth functioning of routine work. As far as participative management is concerned, two student's cells namely Team Full Throttle (TFT) and Team MH-08 Racing are working on design and development of racing cars for participating in national and international level competitions. Team members are form various department of the college and they are taking care of the work related to their branch. There are various sub committees under two main committees namely Technical and Non-technical. Technical Committee has further groups which take care of work related to Steering, Suspension, Engine Transmission, Electrical, Chassis Body, breaking system and Aerodynamics. Non-Technical committee takes care of Documentation, costing, Fund raising (Through Sponsor) public relation Advertising and Hospitality at the place of event. Achievement: Team MH08 Racing:- Team MH08 racing represented India at International podium by participating in formula student UK Competition at Silverstone Circuit UK. Team was among the 33 teams out of 81 teams to clear technical scrutineering. Team captain Mr. Pranit Watve won prestigious Craig Dawson Award for Most Valuable Team Member 2019 along with the team's following credential • 32nd rank in Business plan presentations among 81 international teams • 55th rank in Cost event among 81 international teams • 36th rank in Design event among 81 international teams. • Overall world ranking is 43rd among 81 international teams. Team has cleared the toughest scrutineering tests like ? Technical inspection ? Chassis inspection ? Safety inspection ? Tilt test Formula Bharat 2020:- Formula Bharat is the national Formula Student competition held at kari motors speedway, Coimbatore in the January 2020. Team MH08 Racing has cleared all the technical scrutineering as well as the static events like design presentation, Cost presentation business plan presentation. Achievements:- 1. Design Presentation: - 15th rank among 70

national teams 2. Cost Evaluation:- 28th rank among 70 national teams 3. Business Plan presentation:- 26th rank among 70 national teams 4. Overall national ranking 27th among 70 national teams Team Full Throttle:- Formula Kart Design Challenge 2019 held at Coimbatore in October 2019 by FMAE. Team's Achievements:- 1. Design Presentation:- Runner Up 2. Cost Report:- Runner up 3. Autocross:- Runner Up 4. Overall:- 5th among 48 national teams

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	<p>A] First Year Engineering Admission: Faculty members visited HSC Colleges of Ratnagiri Sindhurga District during 20th November 2019 to 31st December 2019. Total No. of colleges visited are 49 out of which 33 are from Ratnagiri District 16 are from Sindhurga District. The purpose of this visit was as follows 1. To Conduct One Day Workshop on "Solar Lamp - Assembly Disassembly" including Quiz Competition on "Renewable Energy Sources" for 12th Science students 2. To deliver power point presentation on following points</p> <ul style="list-style-type: none"> • Engineering Education Job Opportunities • Eligibility Criteria, Admission Process, Government Scholarship Schemes, Necessary Documents for Admission in Engineering • MH-CET JEE 2020 Details for Engineering • Information about RMCET • Courses Offered, Fee Structure, Entry Students Contact Information in RMCET <p>B] Direct Second Year Engineering Admission: Faculty members of respective department visited Diploma Engineering Colleges of Ratnagiri districts to Deliver Departmental Presentation and Expert Lecture related to curriculum. College offers tuition fees waiver scheme for the needy meritorious students.</p>
Industry Interaction / Collaboration	<p>Industry Interaction / Collaboration ? College has established an "Industry Institute Interaction Cell (IIIC)" to promote the industry engagement. The basic objectives are: -To encourage the students to undergo trainings/internships in industries during their vacations. -To appeal the industries to offer projects to the students based on their present requirements. -To encourage the</p>

departments to invite industry professionals as their departmental academic advisory board members for arranging industry expert sessions on latest trends in industries. ? The institute has registered all the students on internshala.com which is a platform approved by AICTE, New Delhi for providing internship opportunities to the students in various industries.

? Total 205 students from UG Engineering and PG Management successfully completed the Industrial Training/Summer Winter Internships. ? Industrial Visits are organized for students. ? Experts from industry are invited for interaction with staff and students. -Department of Automobile Engineering organized 06 Industry Expert's Seminars/ Workshops for students. -Department of Computer Engineering organized 07 Industry Expert's Seminars/ Workshops for students. -Department of Electronics Telecommunication Engineering organized 04 Industry Expert's Seminars/ Workshops for students. -Department of Mechanical Engineering organized 11 Industry Expert's Seminars/ Workshops for students. -Department of Management organized 06 Industry Expert's Seminars/ Workshops for students. ? Students are encouraged to undertake industrial projects. -Mechanical Engineering department: 05 Industrial projects -Automobile Engineering department: 01 Industrial project ? Experts from Industries are included in the Academic Advisory Boards of various departments. -Automobile Engineering Academic Advisory Board-06 members -Computer Engineering Academic Advisory Board-05 members -Electronics Telecommunication Engineering Academic Advisory Board-03 members -Mechanical Engineering Academic Advisory Board-06 members Achievements: i. In the year 2019-20, 14 students were selected for internships in various reputed organizations like E-Cell-IITB, India Redefined, World Youth Council, Ogresto, Digifuse, Aakriti Techfest, IITD, IIM Sirmaur, IIT Bhubaneswar through internshala.com portal. The stipend offered is from Rs.1,000 to Rs. 10,000. ii. RMCET secured 619th Rank among the 2830 colleges in India based on the number of internships received

and total number of students applying for various internships during the internship Day 2019 conducted by internshala.com and AICTE, New Delhi.

Human Resource Management

- College has recruited teaching faculty members in every department as per AICTE norms to fulfil Teacher Student ratio and Sufficient Non-teaching staff have been appointed.
- Also various statutory and other committees have been formed at college level for smooth functioning of academic as well as non academic activities of the college. Meetings are conducted at regular intervals for planning and execution of activities.
- Every faculty of the department has been given additional responsibility either as a head or member of the committee apart from academic load for smooth functioning of the department.

Library, ICT and Physical Infrastructure / Instrumentation

Library is maintained with requisite number of books as well as E-journals as per the AICTE guidelines. In our library there are total 27068 text books available for circulation. In addition there are 1697 reference books, 36 Printed Journals. Library provides book bank facility to the students under which 600 books are available.

- 31 volumes of the cost 32,403.00 have been purchased in year 2019-20
- 36 Printed Journals of cost 1,27,185.00 have been procured in year 2019-20
- Feedback from students regarding library facility is taken every year. Following activities are conducted by Library for students

1. Vachan Prerana Din (15th October)
2. Marathi Bhasha Din (27th February)

- ICT:- Faculty are using following ICT tools for effective teaching learning

1. Google form
2. Edmodo for online quiz
3. Android App for online MCQ
4. Virtual Lab
5. Simulations
6. ZIP Grade.
7. PPT Videos
8. Google Meet
6. Google classroom. Faculty are also using NPTEL study material.
- Physical Infrastructure / Instrumentation: Department of Mechanical Engineering has purchased various lab equipment's and lab software's of the cost of Rs. 1,69,583.00 during 2019-20. Department of Electronics and Telecommunication Engineering has purchased various lab equipment's of the cost of Rs. 15,270.00 during 2019-20. Department of

Computer Engineering has expended Rs. 1,10,935.00 towards maintenance of computers of the various labs during 2019-20. Institute has expended Rs.4,27,732.00 for Building Repairing and Maintenance purpose during 2019-20.

Research and Development

Every year faculty of various departments submit Minor Research Proposals to Affiliating University for receiving grant. In year 2019-20, Five (05) Minor Research proposals have been submitted and two (02) proposals with grant of Rs. 44,500.00 have been sanctioned. We encourage students to participate in research competitions at national level such as Avishkar, Smart India Hackathon etc. Four (04) project groups of the students have participated in Avishkar Research Convention 2019 zonal round. One project group (Mr. Shreyas Dongre team) of students has been participated in Avishkar Research Convention 2019 Mumbai University round. Every year college gives cash prize of Rs. 1500.00 towards the best research paper presented by the faculty of the college.

Examination and Evaluation

- Question papers of Unit tests are set by concerned subject teacher based on blooms taxonomy to achieve course outcomes and thereby program outcomes.
- Term work includes evaluation of Practical Performance / Tutorials / Assignments conducted throughout the semester as a part of continuous evaluation of learner's performance. Evaluation is done based on the rubrics designed.
- Oral/Practical Examination for a particular subject is conducted at the end of the semester Evaluation of performance in practical examination is done based on the rubrics designed.
- Final Year projects have been divided into four category viz. Industry Sponsored, Need Based, Research Based and Multidisciplinary. Evaluation of project/mini-project is done at the end of the semester based on rubrics designed.
- For End Semester Examination, University sends question paper. It is made available 1 hour before the commencement time through online Digital Exam Paper Delivery system. Evaluation of answer books of Semester I, II, VII VIII is done at University level. University has

started on screen marking where theory papers are assessed by examiner online through On Screen Marking software. Our college has a CAP center for On Screen Marking of theory examinations conducted by University of Mumbai. Evaluation of answer books of Semester III, IV, V VI is done at College level for which preparation of Answer key with marking scheme is mandatory for the examiners. • College gives cash prize of Rs. 5000.00 to the topper of each class for encouraging the students to perform better in the examination

Teaching and Learning

- For every semester academic calendar is prepared at Institute level as well as at department level for planning of lectures and practical's.
- Teaching plan is prepared for every subject for 100 completion of the syllabus.
- Modern teaching-learning aids and ICT resources such as Google form, Google Meet, Zoom meeting, Edmodo, Simulations, ZIP Grade etc. are used for effective delivery of curriculum.
- Lecture notes and Google meet recorded lectures are made available to the students.
- Crash Courses/Remedial Classes are conducted for the students who are at the risk of year drop.
- Virtual Lab is used for conduction of Practical wherever possible.

Curriculum Development

As our college is affiliated to University of Mumbai, we follow the curriculum designed by affiliating University However we engage few classes for covering prerequisite of the course before commencing the actual syllabus of the course. Add on courses are also conducted for covering the content not mentioned in a syllabus.

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

E-governance area	Details
Planning and Development	Semester wise academic plan is made available on college website for the reference of the students and their parents along with all other stakeholders.
Finance and Accounts	Accounts department is using Genius software purchased from SAG InfoTech for calculating TDS, filing income tax return and generating form No. 16 of all the staff of the college. Majority of financial transactions are cashless.

	QR code is Generated for collection of fees.
Student Admission and Support	College admission form is made available on college website. Necessary support is given based on the Eligibility of the candidate. Online platform is provided to the students for paying the fees.
Examination	Examination department started issuing computer generated receipts of examination fees. Online examinations using Google form and Google Meet.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mr. Dongare V. K.	NPTEL Course Refrigeration and Air Conditioning	Nil	1100
View File				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	"CAD Modeling using Autodesk Inventor"	Nil	18/11/2019	22/11/2019	12	Nil
View File						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Industrial Aspects Of Thermal Engineering	3	13/06/2020	17/06/2020	05
Exploring The Dimensions Of	9	08/06/2020	12/06/2020	05

Innovation, Incubation And Emerging Technologies To Embrace Post Covid Changes				
Advanced Trends In Engineering	5	19/05/2020	23/05/2020	05
Outcome Based Education: A Step Towards Excellence	19	11/05/2020	15/05/2020	05
Deep Learning Part 1	1	01/07/2019	31/10/2019	72
Introduction to Research	1	01/08/2019	31/10/2019	48
FDP on Hands-on practices on Balanced Robotics and Rapid prototyping using 3D Printing	1	24/12/2019	28/12/2019	05
FDP on Ethical Hacking	1	01/07/2019	31/10/2019	72
FDP on Embedded Systems and Internet of Things	1	11/11/2019	22/11/2019	12
"CAD Modelling using Autodesk Inventor"	12	18/11/2019	22/11/2019	05
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	21	Nill	6

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Advance payment against salary. 2. Concession in fee and relaxation in time for payment of fee for their wards. 3. Gratuity scheme has been implemented to	1. Advance payment against salary. 2. Concession in fee and relaxation in time for payment of fee for their wards. 3. Gratuity scheme has been implemented to	1. Details about the scholarships, various freeship are displayed on the notice board of the college. Office staff provide guidance to the students regarding

all eligible faculty members

all eligible staff

various scholarship/ freship schemes. 2. Scholarships from central, state governments and other agencies are made available to the students. 3. The college has tuition fees waiver scheme for needy and meritorious students. 4. The college has a student welfare fund through which financial assistance is given to students' activities 5. Educational loan facility from the bank is also provided to the students 6. Free Medical and 24 x 7 Ambulance facility is available in the campus. 7. Financial assistance to students for participating in University and national International level competitions.

6.4 – Financial Management and Resource Mobilization

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

The Accounts Officer monitors the daily transactions. Before the end of every financial year, external auditing is done by verifying books of accounts. Last statutory audit is done up to the financial year ending 31st March, 2020. There are no any major objections raised by the Auditor.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	0
No file uploaded.		

6.4.3 – Total corpus fund generated

156476.00

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nil	Yes	IQAC
Administrative	No	Nil	Yes	IQAC

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

Every year, we conduct the Parents Teachers meet at the end of the Year. It was scheduled in the month of March 2020 but due to covid-19 pandemic, it was not conducted physically. We are in touch with the parents through the following modes of an Online communication 1. Google Meet 2. Students WhatsApp groups 3. Telephonic communication wherever required Considering the covid-19 pandemic situation, we have communicated to parents and students time to time about the online classes, coverage of syllabus, online practical and theory examinations.

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

1. One Day Training Program to non-teaching staff on "Use of Advance Excel" was organized by computer Engineering Department on 06 January 2020 2. One Day Training Program to non-teaching staff on "Hands on Operating of Audio/Video system" was organized by Internal Quality Assurance Cell (IQAC) on 30 January 2020 3. One Day Training Program to non-teaching staff on "Aduino kit design and development" was organized by Electronics and telecommunication Engineering Department on 18 February 2020

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

1. Encouraged teams of students for International Competitions. 2. Encouraged faculty members for NPTEL/MOOC Certifications. 3. Encouraged students and teachers to use different tools for online teaching learning. 4. Encouraged students to undergo an industrial training.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	A session on "Outcome Based Curriculum Design Software Framework"	31/12/2019	31/12/2019	31/12/2019	42
2020	One Day Training Program to non-teaching staff on "Hands on Operating of Audio/Video system"	30/01/2020	30/01/2020	30/01/2020	13

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the

year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Orientation programme of Internal Complaint Committee.	28/08/2019	28/08/2019	78	51
A session on "Stress Management"	09/01/2020	09/01/2020	70	31
A medical camp on "Health of Girls"	02/03/2020	02/03/2020	107	Nil

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

Percentage of power requirement of the University met by the renewable energy sources
48.41

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nil	02/07/2019	3	JEE mains, GATE, MBA CET, Finance, MHT CET, Mahavitaran, ITI,	To provide the facility of computers for the society	2314

					DTE MED, Mahaonlin e-Talathi, NPTEL, MMMOCL Exam, BSC Exam, BOI, IDBI bank, Forest, SBI, IBPS DHE, IIFBUGC NET, IBPS CSIR online Exam	through c onduction of online exams. The rural students get the nearby exam center	
2020	1	Nil	08/01/2020	3	JEE mains, GATE, MBA CET, Finance, MHT CET, Mahavitaran, ITI, DTE MED, Mahaonlin e-Talathi, NPTEL, MMMOCL Exam, BSC Exam, BOI, IDBI bank, Forest, SBI, IBPS DHE, IIFBUGC NET, IBPS CSIR Online Exam	To provide the facility of computers for the society through c onduction of online exams. The rural students get the nearby exam center	1222
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Student Codebook	08/07/2019	Institute has got a code of conduct for the staff as well as students. The general code of conduct is also prescribed by the Statutory Committees. All the staff students are following the dress code

on every Thursday. Students are carrying their I-cards in college premises in library. Exam department conveys all exam related activities to all the students. Students are following all the rules during examination. Unfair means committee take care about the unfair activities during examination. Anti-ragging committee is in functioning. All statutory committees are conducting various seminars or programs for the students.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Universal Human Values	23/07/2019	02/08/2019	54
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The institute formed many social groups such as Nature Club, NSS and WDC which take part in environment related activities like tree plantation etc. 2. Grid connected solar roof top PV system 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. Energy conserving lights like CFL and LED are used in the College campus, Solar Energy is used for providing hot water in hostels. 3. Government built dam is available just behind the college campus. The rain water has been routed to the dam through the stream channels inside the campus. 4. Electronic Document Management (EDM) is the management of different kinds of documents in a department in soft copy format using Google drive, blog and FTP server. 5. No Vehicle day was celebrated during Annual Function Aarohan 2K19.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice No: 01 Title of the Practice: Encouraging students to participate in state and national level technical competitions. The Context: The students are the main stakeholder of the educational institute so the prime focus should be on the student's development. The institute encourages the students to develop the various technical skills to face the competition at state level or national level. Due to the participation in different competitions the students will learn lot of things. They 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 of the practice: • 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 or 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 or team and submits the details to institute level coordinator for further processing. The institute level coordinator submits these proposals to the Principal. The Principal examines and verifies the proposals and selects the eligible and suitable groups or teams. The selected groups or teams will be asked to participate in the competition. The institute provides the monetary support to the eligible groups or teams. 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. Following are the some competitions in which our students have participated. • Avishkar Research Convention 2018-19, University of Mumbai. • A National level event sponsored by BHARAT FORGE- RIT Hackathon - 2K19. • SMART INDIA HACKATHON 2019. AICTE-ECI-ISTE Chhatra Vishwakarma Awards-2018. • Team MH08 Racing to represent India at formula student UK - 2019. • Winner of most Lightest race car of India in the year 2018, held at Kari Motors Speedway, Tamil Nadu. Also, winner of Best Design of Car. • Formula Student United Kingdom 2019 awarded Team MH-08 Racing by the award "Craig Dawson Most Valuable Team Member Award" on 20 th July 2019. • Team MH-08 Racing has got 27th National Ranking among 70 teams by Formula Bharat 2020 on 28 th January 2020. • Formula Karting Design Championship (FKDC3) Pune2019 o 8th Rank - In Design Report o 7th Rank - In Cost report o 8th Rank - Skid-Pad Test o 11th Rank - Out of 60 teams • Formula Karting Design Championship (FKDC4) Coimbatore 2019 o 2nd Rank - In Design amp CAE Report o 2nd Rank - In Cost report o 2nd Rank - Autocross Test o 5th Rank - Out of 48 teams **Resources Required:** The respective department laboratories with required amenities, library and faculty advisor. **Contact Details:** Contact Person: Mr. L. S. Naik

Name of Institution: Rajendra Mane College of Engineering and Technology, Ambav Tal: Sangameshwar, Dist: Ratnagiri Pin code: 415 804 Work Phone: 02354-260992 Website: www.rmct.com Email: naikls@rmct.com Best practice No: 02 **Best practice:** Promoting the students to undergo Industrial Training **The context:** Engineering being a professional education programme needs exposure to the latest developments in Industries and bridge the gap between Industry and Academia. The students are learning various technical subjects during their curriculum. 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 training after Second and Third year exams. **Objectives of the practice:** RMCET has started the policy of promoting the students to undergo Industrial trainings with the following objectives: 1. To understand the practical implications of the theoretical technical concepts. 2. To create awareness among students 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 has been established at RMCET to promote the industrial training and internships to

students. 2. Notifying the students of Second and Third year engineering in the month of March to identify the probable industries wherein they are willing to undergo Industrial training. 3. Industry Institute Interaction Cell 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 June/July month after completion of their university examinations. 5. The Industry Institute Interaction Cell Coordinator of every department receives the industrial training reports from individual student in the month of August. 6. In consultation with the HOD, Industry Institute Interaction Cell Coordinator of every department conducts the presentations of industrial trainings in the month of September/October to verify the learning outcomes through the industrial training. Obstacles faced if any and strategies adopted to overcome them: Following are the obstacles faced: 1. As Industrial training 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 training. 3. Industries are not showing much interest in extending the industrial training 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. Resources required NA Contact person for further details Dr. Rahul Vishwanath Dandage Head, Industry Institute Interaction Cell, Rajendra Mane College of Engineering amp Technology, At.Po. Ambav (Devrukh) Tal-Sangameshwar, Dist-Ratnagiri. PIN-415804 Email: r.dandage@rmcet.com Mobile: 9975171527

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

<http://rmcet.com/rmcet/assets/data/igac/best%20practice.pdf>

7.3 – Institutional Distinctiveness

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

RMCET is 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 girls hostels, staff quarter principal bunglow. It is fully residential college campus. Students from rural area gets the benefit of these facilities. Automobile Engineering department have advanced lab instruments like Computerised Wheel Alignment Machine Computerised Wheel Balancer in Vehicle Maintenance Laboratory. This department from our institute has shifted all the lab instruments from Vehicle Maintenance Lab Automotive Emission Lab to the extension centre. This extension centre is located at the campus of Maitri Petrol Pump, Devrukh. The objective of this Auto Service Centre is to provide service to the society with utilization with departmental resources to generate extra revenue for the betterment of the department Institute. Civilians of Devrukh city the Institute is benefited by this initiative. Similarly Institute provides Online examination facility to the public. 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 center.

Provide the weblink of the institution

<http://rmcet.com/rmcet/assets/data/igac/7.3%20Institutional%20Distinctiveness-converted.pdf>

8.Future Plans of Actions for Next Academic Year

The IQAC has the following plan of action considering the objective to build and ensure a Quality Culture at RMCET for the development of the college. Action Plan of the college for academic year 2020-21: • To conduct Internal and External Academic Administrative Audit of the college. • Encouraging students and teachers to use different tools for online teaching learning. • Creating awareness in teachers and students about covid-19 pandemic and precautions to be taken. • To organize the online National Level Conference in the college. • Encouraging students to enroll for Online Internship Programs. • To improve the admissions in the First and Direct Second Year Engineering.