



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	CMR TECHNICAL CAMPUS
Name of the head of the Institution	Dr Avala Raji Reddy
Designation	Director
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	09247033440
Mobile no.	9248727220
Registered Email	director@cmrtc.ac.in
Alternate Email	info@cmrtc.ac.in
Address	Kandlakoya (V) , Medchal Road, Hyderabad
City/Town	Hyderabad
State/UT	Telangana
Pincode	501401
2. Institutional Status	

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr Pankaj Agrawal
Phone no/Alternate Phone no.	09247016285
Mobile no.	9248727226
Registered Email	iqac@cmrtc.ac.in
Alternate Email	hod.ece@cmrtc.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.cmrtc.ac.in/index.php?option=com_content&view=article&id=262&Itemid=500
4. Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	https://www.cmrtc.ac.in/index.php?option=com_content&view=article&id=195&Itemid=161

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.12	2019	08-Feb-2019	07-Feb-2024

6. Date of Establishment of IQAC	01-Sep-2017
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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
Alumni Meet	29-Dec-2018	128

	1	
Mental Health	27-Oct-2018 1	240
Alphazeo Workshop on Machine Learning and Artificial Intelligence	28-Sep-2018 2	136
Application of Total Station Survey in Civil Engineering	28-Sep-2018 3	56
Block chain technology and its adoption process	16-Aug-2018 1	106
Virtual Labs	09-Aug-2018 1	60
Soft Computing Techniques	09-Aug-2018 1	110
View File		

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
Dr. P. Nagaraju	Consortium for Scientific Research	UGC-DAE-CSR	2018 360	45000
Department of Electronics and Communication Engineering	FIST Program-2017	DST	2018 1800	4500000
Dr. K. Srujan Raju	Assistance to Professional Bodies & Seminar / Symposia Scheme	SERB-DST	2018 2	100000
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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 :	3
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)									
• Conduction of Various training programmers for faculties and students • Participation in NIRF • NAAC accreditation of Institute with A grade • NBA Accreditation of B.Tech. Branches • Academic Administrative Audit (AAA) and action on it									
View File									
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year									
<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>NAAC Accreditation for the Institue</td> <td>Accredited by NAAC with A grade</td> </tr> <tr> <td>NBA Further Accreditation Status to UG Branches</td> <td>Received NBA Further Accreditation Status to UG Branches</td> </tr> <tr> <td colspan="2">View File</td> </tr> </tbody> </table>		Plan of Action	Achivements/Outcomes	NAAC Accreditation for the Institue	Accredited by NAAC with A grade	NBA Further Accreditation Status to UG Branches	Received NBA Further Accreditation Status to UG Branches	View File	
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View File									
14. Whether AQAR was placed before statutory body ?	Yes								
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Academic Council</td> <td>27-Dec-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Academic Council	27-Dec-2019				
Name of Statutory Body	Meeting Date								
Academic Council	27-Dec-2019								
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes								
Date of Visit	14-Jan-2019								
16. Whether institutional data submitted to AISHE:	Yes								
Year of Submission	2019								
Date of Submission	08-Feb-2019								
17. Does the Institution have Management Information System ?	Yes								

If yes, give a brief description and a list of modules currently operational (maximum 500 words)	MIS has been introduced to start with an email service for both students and faculty with Gsuite by Google. An automated central library facility made available to the students and faculty.
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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

CMR Technical Campus (CMRTC) continuously evolves strategies to provide quality education to fulfil the aspirations of the students and strive hard to achieve excellence in technical education. The institute has well qualified faculty to impart technical and value-based knowledge in a conducive learning environment. The curriculum and the syllabus of the UG and PG programs are designed by the affiliating University, JNTUH. The Choice Based Credit System (CBCS) was introduced from the academic year 2016-17. The University is instrumental in deciding the common subjects of first year and the number of credits to be allocated to each semester, the number of open electives and the mandatory courses. The curriculum and teaching methodologies are designed to enhance employability and the spirit of entrepreneurship among the students. The University brings out reforms in curricular aspects to meet the challenges as posed by industry and society. As part of this the university has introduced courses like Gender Sensitization, Environmental Science, Soft Skills and Personality Development, NSS/NCC, Sports, Entrepreneurship Development, Value Engineering, Essential English and Employability Skills, Business English, Internships and Professional Ethics. Open Elective Courses provided in the curriculum facilitate lateral mobility across the programmes and courses. For implementing effective delivery of the curriculum, the following processes are adopted: As per the university prescribed curriculum, the subjects are allotted to the faculty based on their experience and expertise. The concerned faculty prepares lecture schedule, tutorial sheets, assignments and Question bank for objective as well as subjective, before commencement of the Class work. The lectures are delivered with help of ICT tools and teaching aids. The syllabus coverage is reviewed and assessed on monthly basis to ensure coverage of syllabus in time. Most of the laboratories are designed to promote conduction of experiments individually. Tutorial classes are conducted, especially in mathematics and problem-orient subjects/courses. Regular assignments are given to the students on the extended topics of the syllabus covered in the class. Additionally remedial classes are engaged for the slow learners. The course file prepared by the individual faculty demonstrates the documentation process of effective deliverance of curriculum.

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
Problem Solving through Programming in C	Nil	02/07/2018	120	Skill Development	Nil

Joy of computing using Python	Nil	01/01/2019	120	Skill Development	Nil
Programming In C	Nil	01/01/2019	120	Skill Development	Nil
Introduction to Soft Computing	Nil	01/01/2019	120	Skill Development	Nil
English language for Competitive exams	Nil	01/01/2019	120	Skill Development	Nil
Modern Digital Communication Techniques	Nil	01/01/2019	120	Employability	Nil
Rapid Manufacturing	Nil	01/01/2019	120	Employability	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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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
BTech	Computer Science and Engineering	02/07/2018
BTech	Civil Engineering	02/07/2018
BTech	Electronics and Communication Engineering	02/07/2018
BTech	Mechanical Engineering	02/07/2018
BTech	Information Technology	02/07/2018
MBA	Business Administration	02/07/2018

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

	Certificate	Diploma Course
Number of Students	667	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
Enterprise and Small Business Entrepreneurship	02/07/2018	201

Intellectual Property Rights	02/07/2018	201
Understanding the world of an embedded engineer	31/10/2018	90
Energy harvesting and IOT applications	08/08/2018	120
Basics for an electronics engineer-hands on	09/09/2018	86
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	27
BTech	Computer Science Engineering	122
BTech	Electronics and Communication Engineering	80
BTech	Information Technology	32
BTech	Mechanical Engineering	57
MBA	Business Administration	120
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The survey is conducted and reported by the Internal Quality Assessment Cell (IQAC) with the support of Heads and Coordinators of all the departments. The questioners were prepared in the form of Google form and circulated to all the departments and then to all the stakeholders such as students, alumni, and parents through coordinators. The feedback was taken on different attributes like Basic Facilities, Basic Services, Maintenance and Cleanliness, Co-curricular and Extracurricular activities, Food and water, Library Services and Hostels. The responses obtained on these dimensions are compiled into a spreadsheet, analyzed and logical conclusions are drawn therefrom. As all the values are represented in terms of percentage, a value above 50 indicates an above-average satisfaction. The weighted average value of student satisfaction is obtained after assigning weightage to the parameters based on judgment applied by the members of IQAC. The results of the survey will help the institution to understand both the short term and long term needs of the students and initiate remedial action to improve the facilities wherever it is

required. The outcome of this survey will provide a base for planning for the future.

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
Mtech	Thermal Engineering	18	18	13
Mtech	Structural Engineering	18	18	Nil
Mtech	Embedded System	18	18	Nil
Mtech	Computer Science and Engineering	18	18	6
MBA	Master of Business Administration	180	180	180
BTech	Mechanical Engineering	180	180	123
BTech	Information Technology	60	60	60
BTech	ELECTRONICS AND COMMUNICATION ENGINEERING	180	180	180
BTech	Computer Science and Engineering	240	240	240
BTech	Civil Engineering	120	12	120
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	780	252	217	24	241

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 Tools and resources	Number of ICT enabled	Number of smart classrooms	E-resources and techniques used
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	ICT (LMS, e-Resources)	available	Classrooms		
241	220	66	66	6	10
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

The administration strongly emphasizes that mentoring has to be given utmost importance and it will definitely fetch good results if carried out in the right spirit. The Mentoring system in our college is to Bridge the gap between the teachers and students. Mentoring of 25-20 students (also called mentees), right from their entry to exit and maintaining contact even after their graduation is the core idea of this mentoring process. The followings are the responsibilities of mentors • Regular meetings with mentees. • Parents are regularly updated by mentors about their ward's performance • Regular meetings with their Parents • A report card is maintained for each student. • The report card has both personal and academic data. • Students are allowed to approach the mentor for both academic personal problems. Personalized professional /career advice is given to the mentee. • Creation of Whatsapp Group of Mentor-Mentee and Mentor-Mentee's Parents to post all the info and important messages on a regular basis • Advice and support for improvement in academic performance. • Motivate the mentees for higher studies and entrepreneurship • Motivation for participation in workshops, seminars, conferences, Hackathons, Project Expos for student overall development. • Interaction with the mentees if anyone is not able to clear the process for the placement • Mentees have to take prior written permission in case of not attending the college, mentioning the specific reason • Routing of request from mentee for Bonafide, Custodian etc. • Routing any request by mentee for attending any event inside/outside the college • Submit the Mentoring report by the 10th of every month. This system helps to create a better environment in college, where students can approach teachers for both educational and personal guidance. It also helps in the enhancement of the knowledge base for both teachers and students with effective two-way communication.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3600	241	1:15

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
20	20	Nil	20	4

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr M Varaprasad Rao	Professor	Top 3 performer Award, Virtual Labs, IIIT Hyderabad
2018	Dr B Laxmaiah	Associate Professor	Wipro Certified
2019	Mrs K Pravallika	Assistant Professor	Star Grade by IIT Bombay Spoken Tutorials
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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
BTech	1 3 4 5 1E	II	20/04/2019	18/07/2019
BTech	1 3 4 5 1E	I	10/11/2018	20/02/2019

[View File](#)

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

Internal assessment in CMRTC is very much transparent that every student is aware of the standard internal assessment process of both theory and practical subjects. The institute follows the regulations set by Jawaharlal Nehru Technological University, Hyderabad (JNTUH). The performance of the student is assessed on a continuous basis by conducting two mid-exams per semester based on the university norms. The average marks of both mid-terms are taken into consideration. In addition to the tests, assignments, mini-projects, and quizzes are also part of CIE. The evaluated answer scripts are shown to the students to clarify their doubts about the evaluation process. At the beginning of the semester, the question bank is given to the exam section, consisting of Long Answer Questions (LAQ) and Short Answer Question (SAQ), out of which 10 questions will appear in the Mid-Term Exam. The questions for the exam are selected from the Question bank by the exam section and thus the question paper is prepared a day before the commencement of Exam, maintaining the confidentiality. The mid-term marks are divided as 20 marks for descriptive and objective examination and 5 marks Assignment test. The assignment is conducted periodically as planned by the respective HODs. After every Mid-Term examination, the corrected answer scripts are distributed to students to know their performance and the same is discussed in the classrooms. All the subjects wise Marks are displayed on the notice boards and in the website. Before uploading the marks in the university site, the consolidated mark sheet is circulated among students for their clarifications if any. With respect to laboratory, marks obtained for individual experiments are awarded in their records and the same is entered in the faculty register also. Once all the experimentations are completed, the average marks obtained are calculated and the same is uploaded to the university and even displayed on the notice board.

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

CMR Technical Campus is affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH). The University releases the Academic calendar in advance before the commencement of the academic year. The academic calendar breaks down the academic year into two semesters. It provides the information of the courses for the semester, dates of commencement of class work, syllabus completion, examinations, list of holidays, and the total number of working days. The faculty members of the concerned department gather the lists of courses for the coming semester, and the HOD finalizes the allocation of courses based on the faculty's choice and area of specialization. Faculty members then prepare the lesson plan before the commencement of semester, indicating the topics to be covered, teaching methodologies being applied, and assignments given to students and the number of lectures. A course file for each course is prepared by the faculty, which includes course objectives, outcomes, schedule, references, study material, and questions from previous examinations papers. Students will be provided with the course file in the first week of the semester to provide them awareness about the subject and plan

for the semester. The evaluation process for each subject is duly reviewed by a senior faculty in the department, approved by the HOD, and then made available to the students. Timetable in-charge of each department prepares the timetable as per the guidelines given by the university and gets it approved by Program Assessment committee (PAC). The time-table is then uploaded in CMS system and displayed on the respective department notice boards. The performance of the student is assessed on a continuous basis by conducting two mid-exams per semester based on the university norms. The average marks of both mid-terms are taken into consideration. In addition to the tests, assignments, mini-projects, and quizzes are also part of CIE. The evaluated answer scripts are shown to the students to clarify their doubts about the evaluation process. The academic schedule prescribed is strictly adhered by all departments. CMRTC maintains a high standard through CIE and ensures end semester and practical examinations are conducted jointly by the concerned teacher and an external examiner appointed by the university. Schedule of the end-semester examinations and rules and regulations about evaluation of students under various courses are also included in 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)

<https://cmrtc.ac.in/>

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
2	BE	Civil Engineering	119	97	82
3	BE	Mechanical Engineering	155	130	84
4	BE	ECE	176	149	85
5	BE	CSE	202	174	86
E	MBA	MBA	163	106	65
8	ME	CSE	4	3	75

[View File](#)

2.7 – Student Satisfaction Survey

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

<https://cmrtc.ac.in/iqac/>

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
Any Other (Specify)	1825	DST	45000	45000

Any Other (Specify)	2	SERB	100000	100000
Major Projects	1095	UGC-DAE	4500000	Nill
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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
IPR	CSE	14/02/2019
Filing a patent	Institution	16/08/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
MODULAR POWER-DRIVE WHEELCHAIR	Dr Ahmed Ali Baig	AICTE	13/12/2019	Innovation
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
4	4	23

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

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	1
Civil Engineering	1
Computer Science Engineering	2
Mechanical Engineering	2
Master of Business Application	1
Humanities and Science	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Computer Science and Engineering	17	Nill
International	Mechanical Engineering	21	Nill

International	Civil Engineering	12	Nill
International	Electronics and Communication Engineering	8	Nill
International	MBA	4	Nill
International	H and S	28	Nill
View File			

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
Electronics and Communication Engineering	6
Civil Engineering	5
Computer Science Engineering	8
Mechanical Engineering	4
Master of Business Application	3
Humanities and Science	3
No file uploaded.	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
No Data Entered/Not Applicable !!!						
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
No file uploaded.						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	10	22	4
Presented papers	12	Nill	Nill	Nill
Resource persons	2	4	5	6
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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
Orientation of NSS	CMRTC-NSS	10	360
Independence Day	CMRTC-NSS	29	256
Clay Ganesh	CMRTC-NSS	4	67
Teacher's Day	CMRTC-NSS	146	360
Blood Donation	CMRTC-NSS	28	48
Bathukamma Celebrations	CMRTC-NSS	130	480
View File			

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
Certifications	Rated AA Local Chapter	NPTEL	712
Innovation activities	Chatra Vishwakarma Award	AICTE-ISTE	6
Certifications	Dell-EMC	ICT Academy	42
No file uploaded.			

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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Harita Haram	Govt OF Telangana	Planting Trees	4	15
NSS	CMRTC	Blood Donation	10	48
No file uploaded.				

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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	Duration From	Duration To	Participant
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		/research lab with contact details			
No Data Entered/Not Applicable !!!					
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
No Data Entered/Not Applicable !!!			
View File			

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
250	269

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Newly Added
Classrooms with LCD facilities	Newly Added
No file uploaded.	

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
NEWGENLIB	Fully	Helium 3.2	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	3900	24194	45	266	3945	24460
e-Books	1000	Nill	Nill	Nill	1000	Nill
Journals	101	Nill	36	Nill	137	Nill
CD & Video	2966	Nill	198	Nill	3164	Nill
Library Automation	1	Nill	Nill	Nill	1	Nill
Weeding (hard & soft)	150	Nill	Nill	Nill	150	Nill
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under

Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1317	19	100	2	2	0	5	60	0
Added	0	0	0	0	0	0	0	0	0
Total	1317	19	100	2	2	0	5	60	0

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

60 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
65	119	166	193.32

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)

Policy for infrastructure management CMRTC is committed to provide the best infrastructure to all its departments and other functional areas to ensure that the infrastructure meets and exceeds the requirement of teaching learning and other processes as specified by the statutory bodies both in terms of quantity and quality. This policy for Infrastructure Management of CMRTC has been formulated for planning infrastructure through need analysis considering the guidelines of statutory bodies and development in technology including educational technology procurement of infrastructure ensuring its quality and cost up gradation from time to time proper accounting and safe guarding by putting inventory numbers on each equipment and maintaining asset register, upkeep of the equipment through regular cleaning, preventive and corrective maintenance including Annual maintenance contracts insurance against damage and theft and writing off of obsolete equipment. Creation of infrastructure To ensure the adequacy of the infrastructure including land, buildings, equipment, computer hardware and software, the norms of the statutory bodies like University Grants Commission (UGC), All India council for Technical Education

(AICTE), Affiliating University (JNTUH) with regard to resource requirements shall be adhered. Record of infrastructure Records of all infrastructure including equipment, software, books and other items shall be maintained by all departments and sections of the institute. For this purpose a standard operating procedure (SOP) shall be prepared and circulated. This SOP shall provide definition of assets/piece of infrastructure which must be entered in the stock Register, the process of making entries in the stock Register, the coding of each item and marking of inventory numbers on pieces of infrastructure. The SOP shall also focus on depreciation, physical asset verification and its periodicity, transfer of assets from one to the other department, writing off of obsolete items and their disposal. Insurance Items of infrastructure of all departments of the college costing above a specified amount shall be insured against damage and theft. Upkeep and maintenance All departments shall strictly follow the laid down procedures and guidelines of the institute with regard to cleanliness and preventive and corrective maintenance of infrastructure. This shall include the following. Regular cleaning as per the checklists Regular inspection and periodic maintenance of equipment including lubrication, wherever necessary Preventive maintenance as per the preventive maintenance schedules and maintenance its records. Annual maintenance contract and maintaining record of service / maintenance Corrective maintenance and its records. Phasing out obsolescence and writing off Infrastructure rendered obsolete on account of change in technology, new product and process developments shall be phased out. Any one of a combination of the following shall be adopted Deploying old equipment on tasks of lower level utilization like computers from labs can be deployed on office work for word processing. Transferring assets to other institutes which can utilize the old equipments productively. Selling the old assets through auction or other arrangements. The assets thus transferred or disposed off shall be written off from the stock register by appropriate authority.

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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	Scholarship Paid to students from the college	15	150000
Financial Support from Other Sources			
a) National	State Government	480	16800000
b) International	Nill	Nill	Nill

[View File](#)

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 implemetation	Number of students enrolled	Agencies involved
Yoga and Meditation	18/06/2019	140	NSS
Soft skill development	20/06/2019	128	CMRTC

[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
2018	Placement Orientation Soft Skill Development	109	109	109	109
2018	Mock Interview Session	84	84	80	80
2019	Personal Counselling & Guidance	35	35	11	11
2019	Campus Recruitment Training	480	480	454	454
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	1

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
87	580	454	Nil	Nil	Nil
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	11	CSE	CSE	Nil	Nil
View File					

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

Items	Number of students selected/ qualifying
GATE	2

GMAT	2
GRE	14
No file uploaded.	

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

Activity	Level	Number of Participants
Kho-Kho	Zonal	46
No file uploaded.		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Kho-Kho Winner	National	2	Nill	Nill	Nill
2019	Shotput Runner	National	1	Nill	Nill	Varun
No file uploaded.						

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

Objective of Student Council is to demeanour activities and provide services involving students constructively in both co-curricular extracurricular activities. The Student Activity Cell [SAC] of CMRTC consists of the following clubs which focus and facilitates for overall development of students. Each club is headed by a faculty advisor and constitutes President, Vice President, Secretary, Treasure and members of each class. Aakriti - The Cultural Club Lexis - The Literary Club Sahaya - The Helping Hand Innovative Club Robotics Club Film Photography Club Sports Club National Service Scheme (NSS) Aakriti club for planning organizing culture activities, technical fests, events, workshops, and religious functions at institute level. Lexis club is to develop literary amongst students to improve self confidence, oral communication skills and personality development. Sahaya is a social service, extending a helping hand to the poor and needy people. Innovative club makes students to work in a group to stimulate innovative thinking and arrive at solutions to the betterment of human kind. Robotics club encourages students to share their enthusiasm on robotics in turn enhances student's problem-solving skills, team work, creativity and technical knowledge learning to prepare robots for various competitions. Film Photography Club bring out the creative skills of photography and film making. The memebres of the club shoulders the responsibility of caputuring and documenting various events happening in the institute. NSS programme aims to inculcate social awareness in students, to provide service to society and promotes goverment initiavtives like Swach Bharat, Swach Pakwada, Harita Haram, Swasth India, Digital India and many more. Sports club is responsible for providing opportunities to practice various sports and motivating students for participation, fostering healthy competition. Department association: Apart from clubs, Association Activity hours are also provided from 2 to 4 PM on all working days, addressing a wide variety of topics through Seminars, GD's, JAM, Debating sessions, elocution, project expos, paper and poster presentations, in-house competitions, storytelling sessions etc. The department associations regularly organize technical programs under the banner of clubs and societies. The associations

regularly conduct various programs by in-house faculty members and inviting experts from industry as resource persons. CMRTC students from all department have student chapters CSI, IEEE, ACCE, ISTE, SAE, and IETE. Students representation in Various Committee CMRTC verily promotes representation of students in various committees. This provides a platform for the students to express their opinions and issues related to the curricular, co-curricular, extra-curricular and other support services. The following are the committees/bodies where students are made part of it. ISTE/IETE/IEEE/SAE/CSI/ASSE Department Associations Student activity Cell Clubs National Service Scheme Anti-Ragging Committee Grievance and Redressal Committee Alumni association

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

CMRTC Alumni Association (CMRTCAA) is a registered body, which strives to create a forum to foster a fruitful communication and a congenial relationship between the Alumni and the students. CMRTC alumnus conducts Alumni meet every year on last Saturday of December. The institute strongly believes the success of alumnus reflects the success of the Alma Mater. CMRTC believes in the dictum that the strength of the institution lies in the rapport maintained between its alumnus and the institute. The Alumni acts as advisory members in all professional bodies and closely monitors and advises to the students on various events. Alumni members create awareness on employment opportunities and provide guidance to the pre-final and final year students. Alumni members contribute to the various social service activities through SAHAYA. SAHAYA is a non-profit trust which renders its service to orphanages, old age homes etc. with the support of alumni and public. Alumni members help in getting permission for industrial visits in their organization. Alumni members help in coordinating for signing MoU with companies where the alumni are working. Frequently the members of alumina deliver guest lecturers /seminars to the students on recent advances in the industry, industry expectations and how to prepare for campus placements etc. Each department separately conducts meetings with their alumni members. Alumni members are also part of NSS activities. Alumni proactively give feedback on syllabus and even provide input in formulation of POs and PEOs. Alumni have been instrumental in aiding financially by contributing books to the library.

5.4.2 – No. of enrolled Alumni:

669

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

334500

5.4.4 – Meetings/activities organized by Alumni Association :

One meeting was conducted on 29 Dec. 2018

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)

1. HOD had been provided full flexibility to allocate the subjects in their respective departments without any intervention from the management.
2. Further drill down even in the department the time table coordinator is provided full freedom to design the time table based on the convenience of the faculty.
3. HOD1 - Academic Coordinator has been provided to support HOD in all Academic

Affairs. 4. HOD2 - Laboratory Coordinator has been provided to support HOD related to Departments Laboratory Facilities.

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
Curriculum Development	• Employability enhancement skills are included in the curriculum focusing on the employability of the course. Regular inputs are requested from established alumni, potential recruiters and Industry experts before curricular design. • In recent times, focused on start-up and skill India programs explored with workshops. • Choice Based Credit System (CBCS) curriculum is implemented in all departments. • Feedback on course curricula is regularly taken and improvements are incorporated in due course. • The institution conducts regular sessions on Bhagavad Gita and Meditation in association with RK Matt, Hyderabad. These sessions guide students and staff members to apply the teachings of Bhagavad Gita in their personal and professional life. • Institute organizes national and international conferences and workshops wherein students gain knowledge in the desired field from leading experts. • Case study-based learning is being used by certain departments. A Student-centric learning environment through group discussions, question-answer sessions, audio/visuals, quizzes and project/ scientific paper presentations is implemented in almost all courses. • Professional Internships are offered to students by various departments. • Participation of students in inter-university events like educational workshops, tours, festivals, role plays, skits • Implementation of Continuous Internal Evaluation (CIE) pattern – quizzes, seminars, regular assessment through assignments • Choice Based Credit System (CBCS) – is implemented effectively on campus for the last two years. • The Research and Development Cell of the Institute documents compiles and publishes research output. Results are presented/published in National and

International conferences and Journals.

- To promote research on campus, effective collaborations are pursued with various National and International Universities and industries.
- Strong focus on research publications in reputed journals especially SCI, Scopus and Elsevier.
- The management encourages the publication of research articles by providing a reimbursement policy.
- A new hostel (boys) is likely to be ready by the start of the session.
- Latest books, journal subscriptions, technical magazines, competitive books and magazines, enrichment of departmental libraries, collection of audio/video educational CD/DVD
- Smart classrooms are used on the premises.
- The entire campus is now on CCTV for security purposes.

- Projects and dissertations for reference are available in Research and Development Cell and Library.
- All the heads of the department will prepare the details of the faculty and staff to be recruited for the academic year and submitted to the Director. According to the notification of the vacancy positions, the recruitment notification is issued in the daily newspapers and electronic media.
- One day workshop on the Personality Development program was conducted for the entire staff.

Regular Faculty Development Programs are conducted on campus and off-campus.

- Faculty members are encouraged to participate in faculty development programs.
- Industry experts are invited regularly to give talks and share their expertise.
- Various departments of the University organize Professional Internships, Industrial Visits to give students experiential learning.
- Alumni of the University are well placed in the industry various departments organize talks and guidance sessions of alumni regularly. These sessions are extremely helpful for the existing students for their professional development.
- As per technical education and affiliated university, the entrance examination conducted and admissions processed through counseling
- A separate notification is issued for the management quota, which is filled on a merit basis.

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

E-governance area	Details
Planning and Development	Implemented the e-governance in all 5 Areas of operation. Planning and Development - BEESINFOSYS. Administration - ESSL Security Fingerprints, BEESINFOSYS, CAS, JNTUH BAS. Finance and Accounts - BEESINFOSYS. Student Admission and Support - BEESINFOSYS, CAS, Vmax Solutions, JNTUH BAS. Examination - JNTUH

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				
No file uploaded.				

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	Outcome Based Education	Office for Better Documentation	13/05/2019	17/05/2019	86	18
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Innovative and Effective Methods of Teaching Learning Strategies	86	13/05/2019	17/05/2019	5
No file uploaded.				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
217	217	40	40

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance	Group Insurance	Group Insurance

6.4 – Financial Management and Resource Mobilization

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

Since inception, CMRTC strictly adheres to statutory requirements for audit and accounting practices. Apart from statutory conduct of external audit, internal audits at department level are also performed keeping in view feasibility, cost and sustainability financial audit. To exhibit the transparency in accounting a Daily Purchase Register (DPR) system is maintained. Typically the indent is raised by concerned faculty of the department and authorized by HOD, subsequently approved by Director for payment. Depending on the priority and availability of funds, the actual payment will be made by the Accountant as per the prevailing rules and regulations of the institute. This has given an opportunity to undergo first level checks and balances in order to avoid any error at a larger scale. External audit is conducted annually by the chartered accountant appointed by Governing Body. Internal Audit is also conducted by competent accountant.

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
No Data Entered/Not Applicable !!!		
No file uploaded.		

6.4.3 – Total corpus fund generated

No Data Entered/Not Applicable !!!

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	Nill	Nill	Yes	Dean-Academics, IQAC members
Administrative	Nill	Nill	Yes	Director, IQAC members

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

A faculty mentor creates a Whatsapp group with the allotted mentee for day-to-day communication. A fortnight meeting will be conducted by the mentor to discuss the doubts and any issues if they have. The institute collects regular feedback from parents and guardians of the students. The Dean Student Welfare Cell has also taken initiatives in connecting with parents and discussing with them the progress of their wards.

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

Personal and Professional guidance of the Director is available for all the support staff, as and when required. Training and various skill enhancement workshops are available for the staff through the Training and Placement Cell. The staff has been trained on Office tools for better documentation.

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

Green Initiatives Research projects to be submitted to the agencies More placements

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	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Conduction of Various training programmers for faculties and students, NAAC inspection, Participatio n in NIRF, NBA Accredit ation of B.Tech. Branches	06/01/2018	01/01/2018	30/06/2019	Nil
2019	NBA	05/01/2019	01/01/2019	30/06/2019	Nil
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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
Gender Sensitizationq	03/01/2019	03/01/2019	200	150

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
28.09

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	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
2018	1	1	14/09/2018	1	Clay Ganeshs	Convenient	120
2019	2	1	11/04/2019	1	Voter Awareness program	Local	65

No file uploaded.

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

Title	Date of publication	Follow up(max 100 words)
Values and Ethics	16/08/2018	Higher education is a kind of leadership training. The principles and virtues practised in colleges have a significant impact on potential leaders. Many institutions of higher learning demonstrate expertise in academic subjects, are green campuses with diverse ethics curricula, are active participants in group engagement, and are skilled at delivering meaningful orientation to all stakeholders. It is widely acknowledged that the prestige of the teaching career must be elevated in order to ensure its reputation and honesty. As a result, it is thought appropriate to provide a code of ethics that can be developed by the teaching culture itself for guidance.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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No Data Entered/Not Applicable !!!

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

The institution conducted several awareness camps for enlightening the students for making the campus plastic-free and it is now a plastic-free campus. Plantation of floral and other plants in and around the college campus to expand greenery. Garbage is regularly collected from the office, canteen and different parts of the campus and disposed of in specified locations. Students are advised to reduce/replace printing and photocopying by reading on screen and not to use plastic covers in any of their project paper. The Institution has stopped buying bottled water in any programme and installed purified water dispensing machines in different locations within the campus. The college has installed Green Generator and planned for solar energy generation project for the alternative and uninterrupted sources of power and has taken the decision to use more of LEDs than CFL.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE NO: 1 1. Title of the Practice Advanced Training Lab 2. Objectives of the Practice To identify and bridge the gap between industry needs and academia. To develop curriculum in line with cutting edge technologies. To encourage students for pursuing real time projects. To enhance the employability skills of students. To strength the professional calibre of the faculties, i.e. learn while you earn. 3. The Context Higher education system in our country has grown in a remarkable way to become one of the largest systems of its kind in the world. However, the system has many issues of concern at present, like financing, course structure, management values and ethics and the final product i.e. student quality. It has been widely observed that the prescribed syllabi take care of the basics and the conceptual framework of different domains. However, there seemed to be gap between the awareness and acumen in implementation in professional world subsequently. This motivates to invite the industry experts in helping to design a curriculum to bridge the identified gaps. Further the need to make students industry ready and help them to have a strong foundation for their future careers. It was a challenge to inculcate this lab apart from the regular course timetable. Gradually the process was streamlined and has evolved into a continuous process. Apart from coursework this lab has gained its position as a forefront in student gaining life-skills and increasing their success rate in job placements as well. The background work has involved the timetable setters as well as the class respective teacher/coordinator in streamlining the class for Advanced Training Lab. 4. The Practice The approach of starting the basics and concepts from scratch to advanced level has been the strongest point in this practice. A separate syllabi is devised for second, third and fourth year students based on their learning capacities and contemporary to the semester work. The courses like STAAD-PRO, CAD, MATLAB, Xlinux, ETABS, Python, IoT, BigData, Cloud Computing are conducted by the Advanced Training Lab (ATL) will be the next level of application of technical subjects of the branches such as design, programming and analysis. Each respective batch of students pertaining to their respective years will have a stringent lecture plan in advance and also have options for certification from the companies. 5. Evidence of Success The students are able to transform basic and applied mathematical concepts into programming language. The specific course knowledge imparted to students has resulted in sharpening their knowledge which is evident in implementation of their minor and major projects. Streamlining the advanced lab session along with university coursework has further helped the students to have more

confidence in their regular subjects. Enhanced participation of students in various technical competitions like hackathon, Code contest, Do it yourself, Design contest and many more. Improved campus placements and rise in pay package. Few students have initiated start-ups in their domain.

6. Problems Encountered and Resources Required

The initial problems faced were with respect to syllabus where there was ambiguity in the knowledge gap with respect to university syllabus. This eventually led to the syllabus forming body that decided on the level and several topics of the course taught to students appropriate for that academic year. This solves the problem of breakage of class work for the sake of the lab. Setting of ATL time tables amidst university coursework. Setting of ATL syllabus appropriate to student subjects. MOU's with third party industry trainers for the benefit of student. Lecture schedule and lecture plans.

BEST PRACTICE NO:2

1. Title of the Practice
Department Association Activity Hour

2. Objectives of the Practice To infuse the mental substratum of students with intelligible, comprehensible and coherent work ethics. To develop Soft skills, enhance stage presence and presentation skills. To develop leadership and influential skills. To inculcate organisational skills and to work in tandem with team members.

3. The Context
 With majority of the students coming from different region and background typically from rural demography, there is an inherent fear in them and thus creates an inferiority complex. Due to this it becomes a challenge to convince students to participate in the forefront. Thus an idea was conceived that there should be a platform for the students and by the students where there is little intervention from faculty. This has given an opportunity for the students to plan and execute various curricular and extra-curricular activities, which resulted in broadening the horizons for student interaction and development.

4. The Practice A streamlined procedure is laid for association activity hours involving students of II, III and IV year of their respective departments. Each department is allotted a day in a week with last two hours for conducting events. The President, Vice president, General Secretary, Joint Secretary, Treasurer and executive members are elected members of Executive body. This body is guided by a faculty member as an advisor. The executive body prepares the calendar of events at the beginning of each semester. The list of activities includes Guest lectures, Workshops, Seminars, Alumni talks, technical presentations, Just-a-minute (JAM), group discussions, debates and other activities. The main areas of target of development of student are presentation skills, interview skills, fostering confidence on stage, strengthening soft skills, strengthening spontaneity. Group tasks such as debates, group presentations, event management, taking part in seminars, feedbacks, and interaction with industries are some of the team based development events that take place to improve leadership skills. Keeping student all round advancement and transformation in mind, this intended purpose of the institute to start such a practice has been embraced and will continue steadfastly developing itself with more synchronicity to Higher Education Institution in India.

5. Evidence of Success When it comes to association activity hour, students who have steered various ideas and events for the association have always been in the forefront of campus placements and self development. Since inception of the practice, the crucial purpose was to improve the communications of the students coming from sub-urban upbringings. Students who have been at the vanguard of the association have seen a confirmable turnaround in their confidence and work ethic. The other students who participate in daily activities have taken up new frontiers in both curricular and co- curricular. This implementation has not only proved to be successful in its initial stratagem, but has also up to many degrees inspired and added self augmentation and maturity in student psychology. The basic inhibitions to technical education from students can be reduced.

6. Problems Encountered and Resources Required The implementation for Association Activity Hour mandated us to form executive body from large group of students. There

necessitated stringent scheduling and implementation of weekly activities. To streamline the activity it has tested the presence of leadership, unity and progress in all events. Obliging students for self participation and conducting events on short notice. has been thought-provoking to students which helps them develop their skills for future events. Some of the organisational limitations faced are scheduling, assorting space for activities, dealing with training during university examinations, completion of development program syllabus, attendance of students and working synchronously.

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

www.cmrtc.ac.in/igac

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

CMRTC is committed for creating, archiving and disseminating quality education to strive excellence in Science, Engineering and Technological research for better human kind. It being a continuous process, the institute has been striving hard to make its mark in the national level in specific research arena by establishing research centres in identified domains. • All eligible UG programs are accredited by National Board of Accreditation. • Recognized by UGC under section 2(f) 12(B) of UGC act 1956, which facilitates to receive funds from various government agencies. • The institute has collaborated with various research organisation/labs like Iknowlations Labs- Pune, Global 3-D Labs- Bangalore, Physics department- Osmania university, CSR-UGC-DAE, Indore. • Nano Sensor Lab is established with aid from Science and Engineering Research Board (SERB) as part of grant received for Early Career Research Award. • Research in the area of Cognitive Science with grants from CSRI-DST is being carried out in the department of Computer Science Engineering. • Lab View in association with National Instruments is set with help of Fund for Improvement of ST Infrastructure (FIST). • Research with a grant from Department of Biotechnology is also a part of ongoing research works in the institute. • Continuous augmentation and renewal of infrastructure and facilities. • Involving all stake holders in growth and development of CMRTC. • Professional and intellectual fulfilment of faculty and staff. • Centre for Additive manufacturing and product design (CAPD) is established for rapid prototyping, designing products and manufacturing systems that are functional, aesthetic, usable and sustainable. • Centre for Structural engineering (CSE) and Centre for geotechnical engineering (CGE) are initiated to strengthen research activities among the faculty and student community. • Centre for VLSI Embedded system design (CVESD), Centre for Advanced Communication Systems (CACS), Centre for Signal and Image Processing (CSIP) are established in ECE Department to work in the area of communication, Image processing and VLSI. • Centre for Mobile and Web Technologies (CMWT) and Centre for Internet of Things (CIOT) is established to carry research in the area of latest technologies like Android, IOS and cloud technologies. • Centre for Data analytics (CDA) and Centre for Artificial Intelligence and Deep Learning (CAIDL) is a facility that centralizes institute Research and Development operations, stores, manages and disseminates its data, projects and training and focuses on current emerging technologies in the field of AI and Deep Learning. • To encourage research, publications, patents and consultancy the institute has well defined policies and has been providing rewards and incentives. • The Supervisors of UG and PG projects have been instrumental in taking up innovative and real time projects in their domain. • In pursuit to enhance their qualification and zeal for research, faculty has enrolled themselves in Ph.D. programs. • The institute has promoted conduction of various FDPs/ Seminar/ Workshops/ Conferences

through the research centres to further strengthen research activities. • With an aim to create an international exposure, delegates from foreign countries are invited as part of International conferences conducted in the institute.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

1. UGC Autonomous Status 2. Incubation Centres 3. Research Projects 4. Patents
5. Research Publications 6. MOOCS Courses