



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		CMR COLLEGE OF ENGINEERING & TECHNOLOGY
Name of the head of the Institution		V A Narayana
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08418-200699
Mobile no.		9248727200
Registered Email		principal@cmrcet.org
Alternate Email		narayanaphd@gmail.com
Address		kandlakoaya, Medchal Road, Hyderabad
City/Town		Hyderabad
State/UT		Telangana
Pincode		501401
<b>2. Institutional Status</b>		

Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Feb-2021
Type of Institution	Co-education
Location	Rural
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	Dr G Devadasu
Phone no/Alternate Phone no.	+919248727203
Mobile no.	9885286162
Registered Email	iqac@cmrcet.org
Alternate Email	gdevadas10@cmrcet.org

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="https://cmrcet.ac.in/annual-quality-assurance-report/">https://cmrcet.ac.in/annual-quality-assurance-report/</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://cmrcet.ac.in/academic-schedules/">https://cmrcet.ac.in/academic-schedules/</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.11	2014	05-May-2014	31-Dec-2019
2	A+	3.27	2021	23-Feb-2021	22-Feb-2026

<b>6. Date of Establishment of IQAC</b>	02-Apr-2014
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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
Conduct induction	15-Jul-2019	33

programme to the newly joined faculty.	7	
Conduct orientation programme for the first year students.	05-Aug-2019 1	840

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**8. Provide the list of Special Status conferred 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
Institute	Science Technology and Innovation Hub for Development of Scheduled Tribe in Medchal Malkajgiri District of Telangana State	DST	2020 1065	29857000

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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**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 Uploaded 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)**

- Participate in various College Rankings-NIRF & ARIIA.
- Conduct gender sensitization to all the faculty and students.

- Start-ups and Incubation centres to all the UG Students

- Establish more Centre of Excellences in various departments.

- Signing of MOAs/MOUs with Industries/NGOs/Research Institutions.

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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
It has been decided and approved to conduct induction program for the newly appointed joined faculty.	adequate training for new faculty
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Governing Body	05-Jan-2021

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

Yes

Date of Visit

19-Feb-2021

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2020

Date of Submission

30-Dec-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)

Object: 1. Implementation of Governance in various functioning of the institution 2. Achieving efficiency in our functioning 3. Promoting transparency and accountability 4. Achieving paperless administration of the institution 5. Facilitating online internal and external communication

between various entities of the institution 6. Providing easy access to information 7. Making the institution visible globally

**Policy:**

1. In order to provide simpler and efficient system of governance within the institution, it is decided to adopt and implement e-governance in maximum activities of our functioning.
2. The institution have resolved to implement e-governance in many more areas and with this aim in view we have drafted this policy framework. E-governance in following areas: For convenience purposes, the policy is divided into various areas of operation. These areas of operation are illustrative and the Institute reserves the right to implement e-governance even in the areas not enlisted herewith.

**1. Website:** The website of the college needs to be revamped taking into account the new changes. The website should act as a mirror of the college activities and information about all activities, important notices, etc should be made easily available to the outsiders. For this purpose, a separate service provider/web designer can be appointed by the Secretary of the society. Along with it, training should be given to the existing staff and persons should be identified who will undertake the responsibility of website administration and updation at the college level.

**2. Student Admission:** The College has decided to process all Management quota admissions in online mode. This will cover admissions to all courses of UG PG. For this purpose, an online application made available in the website, The candidate those are interested to take admission in this institute need to fill online application with supporting documents like qualifications, category etc to meet the eligibility criteria. to get applications from the arrangement can be entered into with a reputed banking company preferable State Bank of India with whom the society maintains all its accounts. The Secretary of the Society is given the authority to take appropriate decisions and identify the persons responsible for implementation of this aspect of the policy.

**3. Accounts:** For ease of maintaining accounts, the society is already using Tally software. But, with new

accounting methods and compliances, it has become necessary to procure other softwares as well. Accordingly, requirements should be assessed by the Secretary by discussion with accountant and other accounts staff and accordingly new softwares may be purchased. Appropriate security measures should be taken for maintaining confidentiality of the transactions. Training to the existing staff and updation of the existing softwares must be done on timely basis.

4. Library: We have the privilege of having one of the best library in the country. To continue with this legacy, we need to add more and more elearning resources for the benefit of the teachers and students. Strategic Perspective Plan

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	NA	NA	Nil
No file uploaded.			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31201 - Automata and Compiler Design	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31202 - Data Mining	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31203 - Data Mining Lab	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31204 - Computer Graphics	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31205 - Distributed Computing	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31206 - Human Computer Interaction	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31207 - Information	31/07/2019

			Retrieval Systems	
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31231 - Mini Project-I	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31232 - Summer Internship-I	31/07/2019
BTech	INFORMATION TECHNOLOGY	31/07/2019	A31233 - Technical Seminar-I	31/07/2019
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## 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BTech	INFORMATION TECHNOLOGY	31/07/2019
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### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	INFORMATION TECHNOLOGY	31/07/2019

## 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
AUTOCAD	09/12/2019	103
STAAD PRO	25/11/2019	126
REVIT	02/12/2019	31
Matlab/ Simulink and hardware implementation of inverters using arduino	27/04/2020	138
IOT Applications using Arduino	05/08/2019	127
PCB Designing Fabrication(EEE)	16/12/2019	120
BASIC AUTOCAD	09/12/2019	115
ADVANCED AUTOCAD	04/12/2020	115
BASIC ANSYS FEA	08/06/2020	133
DESIGN DEVELOPMENT OF VEHICLE DYNAMICS	05/08/2019	124
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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
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BTech	Civil Engineering	101
BTech	Electrical & Electronics Engineering	160
BTech	Mechanical Engineering	447
BTech	Electronics & communication Engineering	670
BTech	Computer Science and Engineering	664
BTech	INFORMATION TECHNOLOGY	55
MBA	Master of Business Administration	152
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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
<p>In the CMR College of Engineering Technology, the Feedback is collected from the Students, Teachers, Employers, Alumni in every year. The Collected feedback will be analyzed by the Program Assessment Committee coordinated by the senior faculty/ HoD. The important feedback points related to the curriculum development such as ??Incorporating new topics ??Incorporating new Courses ??FDP's to be conducted ??Workshops to be conducted ??Value Added Courses to be conducted. The eligible FDP's to be conducted workshops to be conducted, Value Added Courses to be conducted will be planned in the following academic year with the approval of IQAC Coordinator and the Principal. The identified new courses to be introduced/ incorporating new topics in the existing course will be included in the Board of Studies minutes during the next syllabus revision. The action taken report of the feedback will be kept in the college website.</p>

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	ES	18	9	9
Mtech	PE	18	9	9
Mtech	CSE	18	9	9
BTech	IT	60	63	60
BTech	CSE	240	452	240
BTech	ECE	240	341	240

BTech	ME	120	98	98
BTech	EEE	120	106	106
BTech	CIVIL	120	104	104
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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	848	215	182	32	0

## 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
214	214	Nil	54	7	Nil

[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)

Mentor Mentee Committee Objective To ensure the professional performance and development of students (mentees) through mentor-mentee system Purpose The purpose of the mentor-mentee system is to provide close guidance to students on academics, co-curricular and extra circular activities and to foster professional relationship between students and the Faculty. Introduction • A mentor is an individual with expertise who can help develop the career of a mentee. • A mentor often has two primary functions for the mentee. – The career-related function establishes the mentor as a coach who provides advice to enhance the mentee's professional performance and development. – The psychosocial function establishes the mentor as a role model and support system for the mentee. Both functions provide explicit and implicit lessons related to professional development as well as general work-life balance. Mentor-Mentee system procedures Departments should follow the following guidelines 1. Student shall be assigned Mentor (Teaching faculty) from first year of the program 2. Mentor shall have a maximum of 25 mentees 3. Mentees should be attached to the same mentor for the duration of program if possible. 4. Mentor should meet the mentees regularly and update mentees' data sheet 5. Mentor should keep track the mentees' academic performance, attendance and participation in competition, co-circular and extra circular actives. 6. Mentor should identify the advance learners based on the academic performance and advice them to organize and participate in various clubs, committees and skill development programs. 7. Mentor should identify the slow learners and advice them to attend remedial and make-up classes. 8. Mentor should identify the mentees whose attendance is below than the minimum requirement. He should discuss with the student and try to find out the problem. If required the mentor will involve the parents and Head of the department for reforming the student. 9. Mentor should give psychosocial support to the mentees. 10. Mentor also should identify the strengths and weakness of the students and motivate them to achieve the goals Roles Responsibilities 1. Mentor should introduce and discuss the concept of Mentor-Mentee system with the assigned mentees 2. Mentor should update mentees data sheet regularly 3. Mentor should meet the students at least twice in a month 4. Mentor should maintain semester-wise Course Registration form of the students 5. Mentor should create WhatsApp group of his/her allotted students for communication. 6. Mentor should keep track of mentees attendance, academic performance and career development. 7. Mentor should intimate the parents about the student attendance and academic performance regularly 8. Mentor should check the attendance of mentees, if anybody's attendance is below the requirement then he should find out the problem and take necessary actions to reform and the same should be communicated to the parents and HOD. 9. Mentor should identify talents

(sports, cultural, coding, innovation, interests) of their students and encourage them to organize and participate in the events. 10. Mentor should support mentees academically and emotionally. 11. Mentor should ensure that their students following instructions given by college or department.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3949	214	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
214	214	0	0	74

### 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.Bollini Prasad	Professor	Uthama Acharya Puraskar
2019	Dr.V.A Narayana	Professor	Uthama Acharya Puraskar
2019	Dr.K.L.S.Soujanya	Professor	Uthama Acharya Puraskar
2019	Dr.P.Anjusha	Professor	Outstanding Women In Engineering
2019	V.Narshima	Assistant Professor	Educationalist Professional

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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	I	08/01/2020	10/02/2020
BTech	1	II	24/11/2020	12/12/2020
BTech	1	III	04/12/2019	23/12/2019
BTech	1	IV	27/11/2020	12/12/2020
BTech	1	V	05/12/2019	23/12/2019
BTech	1	VI	27/11/2020	12/12/2020
BTech	1	VII	04/12/2019	23/12/2019
BTech	1	VIII	06/09/2020	22/09/2020
MBA	E00	I	24/01/2020	10/02/2020
MBA	E00	II	24/11/2020	12/12/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
54	7615	0.71

## 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://cmrcet.ac.in/wp-content/uploads/2022/01/2.6.1-CourseOutcomes-LandingPage.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
E00	MBA	Nil	106	97	91.5
5	BTech	CSE	241	233	96.68
4	BTech	ECE	274	264	96.35
3	BTech	ME	138	129	93.48
2	BTech	EEE	125	122	97.60
1	BTech	CIVIL	137	124	90.15
D68	Mtech	CSE	9	8	88.89
D20	Mtech	SE	26	26	100.00
D43	Mtech	PE	14	10	71.43
D55	Mtech	ES	8	7	87.50

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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://cmrcet.ac.in/sss/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Dr D Vijayakumar

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr.V.A.Narayana	Uthama Acharya Puraskar	Nill	Indian Servers
National	Dr.K.L.Soujanya	Uthama Acharya Puraskar	Nill	Indian Servers
International	Dr.P.Anjusha	Outstanding Women In Engineering	Nill	Venus International Foundation
International	V.Narshima	Educationalist Professional	Nill	Innovative Scientific Research Professional, Malaysia

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3.2 – Resource Mobilization for Research

3.2.1 – 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
Major Projects	182	Wine Yard Technologies, Ameerpet, Hyderabad	0.6	0.6
Any Other (Specify)	182	Thumbu Hospital Blood Bank	0.8	0.8
Any Other (Specify)	182	RV Geo Services Hyderabad	0.45	0.45
Projects sponsored by the University	365	GOC-Grant for Organizing Conference, 67-37/IDC/GOC/ Policy-5/2019-20, Dd-24-06-2020	1.67	1.67
Projects sponsored by the University	365	TEQIP JNTUH	2	2
Major Projects	1095	Science Technology and Innovation Hub for Development of Scheduled Tribe in Medchal-Malkajgiri District of	298.57	242.41

Telangana State  
DST/SEED/TSP/ST  
I/2019/94,  
Dated: 20th Feb  
2020

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

8

### 3.3 – Innovation Ecosystem

3.3.1 – 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
My Story Telling by Chintakindi Mallesham	RD and CIE	10/07/2019
A Guest Lecture on Research Methodologies	RD and CIE	13/07/2019
Workshop on Social Innovation Rural Development	RD and CIE	13/08/2020
Awareness Workshop on Various Research Funding Agencies	RD and CIE	17/08/2019
India First Leadership Talk Series under MIC	RD and CIE	22/08/2019
One day workshop on Innovation IPR	RD and CIE	03/09/2020
DevOps by Tech Mahindra	RD and CIE	21/09/2019
Ideation Day-I (Innovatrix)	RD and CIE	21/09/2019
Motivational Talk on Entrepreneurship	RD and CIE	21/09/2019
Codeathon 2.0	RD and CIE	27/09/2019
A Guest Lecture on IPR	RD and CIE	28/09/2019
Education to Entrepreneurship MOU Exchange Program with TiE GRAD	RD and CIE	30/10/2019
Ideation Day-II	RD and CIE	30/10/2019
My Story Telling by Dr. N Ramakrishna	RD and CIE	31/10/2019
Talk by Student Entrepreneur	RD and CIE	31/10/2019
A Guest Lecture on IPR Patent, Trademarks	RD and CIE	01/11/2019
Invited talk on Innovations in Artificial	RD and CIE	15/11/2019

Intelligence		
Workshop on Design Thinking	RD and CIE	30/11/2019
Project Expo "Bud 2 Business"	RD and CIE	13/12/2019
Smart India Internal Hackathon-Software /Hardware Edition 2020	RD and CIE	30/12/2019
Technical Fest-AZURA 2K20	RD and CIE	09/01/2020
Workshop on Robotic Automation Process(RPA)	RD and CIE	17/01/2020
Awareness Workshop on National Innovation and Start-up Policy (NISIP)	RD and CIE	28/01/2020
Ideation Day-III	RD and CIE	11/02/2020
Workshop on Research Methodologies	RD and CIE	17/02/2020
Workshop on Intellectual Property Rights (IPR)	RD and CIE	06/03/2020
A Guest Lecture on How Youngsters should handle Failures	RD and CIE	17/04/2020
Workshop on how accreditation is critical going to make-or-break careers of youngsters	RD and CIE	18/04/2020
One-week faculty development programme on Research Opportunities in Power Engineering (ROPE - 2020)	EEE	22/04/2020
One day workshop on Hangout with Emerging Innovator Entrepreneurs Supported through MIC AICTE	RD and CIE	30/04/2020
Leadership talk with Dr. Madhuri Kanitkar, Lieutenant General online event	RD and CIE	02/05/2020
Hangout with Successful Start-up Founder and Learn Design thinking Approach for Hardware Innovation online session	RD and CIE	04/05/2020
Alumni voice with Ms. Sapna, Lieutenant Commander online event	RD and CIE	05/05/2020

Intellectual Property (IP) Management at early stage of Innovation and start-up	RD and CIE	07/05/2020
Understanding Angel and venture Capital funding- What is there for early stage innovator and entrepreneurs	RD and CIE	08/05/2020
Legal and Ethical steps- Productive Entrepreneurship and Startup	RD and CIE	12/05/2020
Innovating Self-Screen and Identity right Opportunities	RD and CIE	13/05/2020
Entrepreneurship, Business Idea and Business Model Canvas online event	RD and CIE	16/05/2020
Frugal Innovation and Social Entrepreneurship	RD and CIE	21/05/2020
Interaction with student innovators and entrepreneurs Emerged from Smart India Hackathon (SIH)	RD and CIE	22/05/2020
Dev Jam Online Hakathon	RD and CIE	01/06/2020
Leadership talk with Ms. Ashwini Deshpande, Co-Founder Director, Elephant Design online event	RD and CIE	06/06/2020
Innovation, entrepreneurship and how to develop our skills and face situations	RD and CIE	13/06/2020
No Child in India shall be deprived of Education because of Hunger	RD and CIE	20/06/2020
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### 3.3.2 – 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
IIT varanasi, BHU	NOONE.TANMAYA	kasi yatra2020	23/01/2020	Student
IIT varanasi, BHU	NIMMA BUKKA SHIVANI	kasi yatra2020	23/01/2020	Student
All India technical Tech Fest	MACHA NITESH GOUD	Mind Tree Osmosis	26/01/2020	Student

Event Design Competition	Mech Dept	SKILL LYNC	24/07/2019	Student
EFFI CYCLE 2019	SAE Students	SAE India at Lovely Professional University, Punjab	05/10/2019	Student
Field Of Winner Technology Innovation	SAE Students	BAJA SAE 2020 Breaking Conventions	26/01/2020	Student
Journal of Critical Reviews	Mohammed Zafar Saif	IOT Analysis	08/07/2020	Student
IJARI-2020	Ala Supriya	Underwater Fish Images Classification by Deep Neural Network	10/06/2020	Student
IJARI-2020	ChilukaVenkat	Underwater Fish Images Classification by Deep Neural Network	10/06/2020	Student
IJARI-2020	Aliketti Deepak	Underwater Fish Images Classification by Deep Neural Network	10/06/2020	Student
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### 3.3.3 – 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
<a href="#">View Uploaded File</a>					

## 3.4 – Research Publications and Awards

### 3.4.1 – Ph. Ds awarded during the year

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

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	43	Nil
International	ECE	13	Nil
National	ECE	45	Nil
International	HS	20	Nil
National	HS	5	Nil

International	EEE	45	Null
International	CE	13	Null
International	MECH	14	Null
National	EEE	1	Null
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CSE	50
HS	1
EEE	9
ECE	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
AUTOMATED FOOD FRESHNESS DETECTION USING FEATURE DEEP LEARNING	Published	2020100953	05/06/2020
Covid19 Protected Room: DISINFECTING ROOM AIR USING MACHINE LEARNING SYSTEM	Published	202031024066	09/06/2020
Design of Autonomous 5D ARMRobot for Industrial Applications	Published	202041024083A	12/06/2020
IPVM-System: Intelligent Parking Vacancy Management and Control System	Filed	201941037583A	27/09/2019
A Motorized Wheel Chair for the Differently Abled	Filed	201941024426A	28/06/2019
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3.4.5 – 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
Impact of Blockchain Technology	Dr A Kotishwar	Indian Journal of Finance	2019	3	CMRCET	3

on Efficiency of Financial Transaction, Indian Journal of Finance						
Back-to-Back Switch Connected NPC Multilevel Inverter fed IM Drive	Dr. Gundala Srinivasa Rao	Journal of Advanced Research in Dynamical Control Systems,	2020	3	CMRCET	0
Performance Improvement of Long distance tuned Transmission line	Dr.S.Mut hubalaji	International Journal of Recent Technology and Engineering (IJRTE)ISSN: 2277-3878, Volume-8 Issue-2S8, August 2019	2019	3	CMRCET	0
BAT ALGORITHM BASED SELECTIVE HARMONIC ELIMINATION PWM FOR AN ELEVEN LEVEL INVERTER	Dr.S.Srinivasan	International Journal of Recent Technology and Engineering (IJRTE)ISSN: 2277-3878, Volume-8 Issue-2S8, August 2019	2019	3	CMRCET	2
Micro Grid Control Methods around the World: State of Art	Dr G.Devadasu	International Journal of Advanced Science and Technology 29 (11s), 1326-1335	2019	3	CMRCET	0
Dual-Band Notched Semi	B.Premalatha	Test Engineering and Management	2020	0	CMRCET	0

circular Monopole Antenna for UWB Applications						
Nature of Localization-Delocalization Transition in a Two-Level System Interacting with a Phonon Bath: a Variational Treatment with an Improved Wave Function	Dr.Soma Mukhopadhyay	International Journal of Theoretical Physics	2019	15	CMRCET	0
Perforated serpentine membrane with AlN as dielectric material shunt capacitive RF MEMS switch fabrication and characterization	G. Venkata Hari Prasad	Microsystem Technologies, Springer	2019	11	CMRCET	11
A Soft Switched Interleaved Boost Converter with Model Predictive Control for Partial Shading Conditions	D.Vijaya kumar	International Journal of Advanced Science and Technology	2019	0	CMRCET	0
Comparative characteristic analysis of diesel engine	Dr. P. Ravi Kumar	International Journal of Mechanical and Production	2019	2	CMRCET	2

with biodiesels		Engineering Research and Development (IJMPERD)			
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3.4.6 – 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
Impact of Blockchain Technology on Efficiency of Financial Transaction, Indian Journal of Finance	Dr A Kotishwar	Indian Journal of Finance	2019	1	1	CMRCET
Back-to-Back Switch Connected NPC Multilevel Inverter fed IM Drive	Dr. Gundala Srinivasa Rao	Journal of Advanced Research in Dynamical Control Systems,	2020	3	0	CMRCET
Performance Improvement of Long distance tuned Transmission line	Dr.S.Mut hubalaji	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-2S8, August 2019	2019	3	0	CMRCET
BAT ALGORITHM BASED SELECTIVE HARMONIC ELIMINATION PWM FOR AN ELEVEN LEVEL INVERTER	Dr.S.Srinivasan	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8	2019	3	2	CMRCET

		Issue-2S8, August 2019				
Micro Grid Control Methods around the World: State of Art	Dr G.Devadasu	International Journal of Advanced Science and Technology 29 (11s), 1326-1335	2019	3	0	CMRCET
Dual-Band Notched Semi circular Monopole Antenna for UWB Applications	B.Premalatha	Test Engineering and Management	2020	0	0	CMRCET
Nature of Localization-Delocalization Transition in a Two-Level System Interacting with a Phonon Bath: a Variational Treatment with an Improved Wave Function	Dr.Soma Mukhopadhyay	International Journal of Theoretical Physics	2019	15	0	CMRCET
Perforated serpentine membrane with AlN as dielectric material shunt capacitive RF MEMS switch fabrication and characterization	G. Venkata Hari Prasad	Microsystem Technologies, Springer	2019	11	11	CMRCET
A Soft Switched I	D.Vijayakumar	International	2019	0	0	CMRCET

nterleaved Boost Converter with Model Predictive Control for Partial Shading Conditions		Journal of Advanced Science and Technology				
Comparative characteristic analysis of diesel engine with biodiesels	Dr. P. Ravi Kumar	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	2	2	CMRCET
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	699	230	0
Presented papers	126	64	0	0
Resource persons	0	1	1	0
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr. K suresh, A P Ravi Chandra, T. Rajesh	Soil testing and SBC of the Soil	Skanda Materials Testing	142000
Dr. K suresh, A P Ravi Chandra, S. Peddaiah	Soil testing and SBC of the Soil	Skanda Materials Testing	219000
Dr NK Amudhavalli. Dr B Prasad, D Rajitha	Dr NK Amudhavalli. Dr B Prasad, V Srinivas	Haalmark	140000
Dr NK Amudhavalli. Dr B Prasad, V Srinivas	Dr NK Amudhavalli. Dr B Prasad, V Srinivas	Haalmark	135000
Dr. K suresh, S. Peddaiah, K R S Maruthi Raj	Soil testing and SBC of the Soil	Sasi Kiran Builders, Hyderabad	189000

Dr J Srinivas Rao, N V N Ravali, N Snehitha	Field Survey and Identification Ground Water	Sasi Kiran Builders, Hyderabad	160000
Dr NK Amudhavalli, O Srinath, B K Chary	Material, Mix design and Concrete Testing	Sasi Kiran Builders, Hyderabad	160000
Dr. P Ravi Kumar, Mr. Santosh Kulkarni, Mr. K. Rajesh, Mr. P. Sridhar Mr. K. P. V. Krishna Varma	Training on - Inspection and testing methods	S S Industries, Plot No 432, Subhash Nagar, Jeedimetla - 500 055, Ph No. 9177033034, Email: krcreddy64@gmail.com	120000
Dr. K Srinivasa Rao, Mr. N. Munesh Babu Mr. Ch. Yella Reddy	Design and planning methods	S S Industries, Plot No 432, Subhash Nagar, Jeedimetla - 500 055, Ph No. 9177033034, Email: krcreddy64@gmail.com	130000
Mr. D. Ajay, Mr. M. Kamal, Mr. E. Sammaiah Mr. K. Sathish	Selection of materials	S S Industries, Plot No 432, Subhash Nagar, Jeedimetla - 500 055, Ph No. 9177033034, Email: krcreddy64@gmail.com	150000
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### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	0	0
<a href="#">View File</a>				

### 3.6 – Extension Activities

#### 3.6.1 – 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
General interaction on Applications of Physics in Engineering	Naipunya club of CMRCET/Upper Primary School, Yellampet	5	25
Skill development program on Carpentry	Naipunya club of CMRCET	5	25
3 Day training program on welding	Naipunya club of CMRCET	5	25
Briefing session on Preparation of chemical compounds	Naipunya club of CMRCET/Upper Primary School,	5	30

Kistapur			
Guest lecture on Magnetism and Faraday's laws	Naipunya club of CMRCET/ZPHS, Pudur	5	30
Briefing session on Introduction to MS - Word	Naipunya club of CMRCET/Uppar Primary School, Kistapur	5	27
Guest lecture on Principle and operation of DC Motors	Naipunya club of CMRCET/ZPHS, Pudur	5	30
Hands on exposure on Black Smithy related works	Naipunya club of CMRCET	5	9
Briefing session on ohms Law	Naipunya club of CMRCET/ZPHS, Ravalkole	5	27
3 day Hand on exposure session on House wiring and repairing	Naipunya club of CMRCET	5	7

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3.6.2 – 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
NIL	NIL	NIL	0

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3.6.3 – 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
Community Development	Naipunya club of CMRCET/ZPHS, Pudur	Guest lecture on Magnetism and Faraday's laws	5	30
Community Development	Naipunya club of CMRCET/Upper Primary School, Kistapur	Briefing session on Preparation of chemical compounds	5	30
Community Development	Naipunya club of CMRCET	3 day Hand on exposure session on House wiring and repairing	5	7
Community Development	Naipunya club of CMRCET/ZPHS,	Briefing session on ohms	5	27

	Ravalkole	Law		
Community Development	Naipunya club of CMRCET	Hands on exposure on Black Smithy related works	5	9
Community Development	Naipunya club of CMRCET/ZPHS, Pudur	Guest lecture on Principle and operation of DC Motors	5	30
Community Development	Naipunya club of CMRCET/Uppar Primary School, Kistapur	Briefing session on Introduction to MS - Word	5	27
Community Development	Naipunya club of CMRCET	3 Day training program on welding	5	30
Community Development	Naipunya club of CMRCET	Skill development program on Carpentry	5	25
Community Development	Naipunya club of CMRCET/Upper Primary School, Yellampet	General interaction on Applications of Physics in Engineering	5	25
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### 3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
NIL	NIL	NIL	0
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0246 - PASUPULETI NISHANT
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0240 - M. HARSHITHA
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0237 - M. SICHITH KUMAR

Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0235 - M. SATHWIK KUMAR SAGAR
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0231 - K. SURYAPRAKASH
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0215 - D. SAISIDHARTHA
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0213 - B. SAISUBR AMANYAM
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0207 - B. MADAN KUMAR GOUD
Internship	Internship	BHEL, HYDERABAD	03/06/2019	17/06/2019	17H51A0203 - A. SHIVA NAGESWARA RAO
Internship	Internship	TSTRANSCO, SEETHARAMPAT NAM, Paloncha, BA DRADRIKOTHAG UDEM	03/06/2019	17/06/2019	16H51A0205 - B. BHARATH VISHAL
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401	12/10/2019	Mindtree Training for IV-B.TECH-ECE/CSE/EEE from 16/09/2019 to 17/09/2019	150
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401	12/10/2019	JAVA, DBMS Training for III-B TECH-ECE/EEE from 16/09/2019 TO 21/09/2019	300
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401	12/10/2019	C Programming (LEs) for III-B TECH- ECE/EEE( LEs) from 16/09/2019 TO 21/09/2019	80

CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 . CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 .	12/10/2019	C Programming for III-B -TECH- CE from 23/09/2019 TO 28/09/2019	85
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 . CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 .	12/10/2019	C Programming for III-B TECH-MECH from 23/09/2019 TO 28/09/2019	69
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 .	12/10/2019	Wipro Training (Open Exam) for IV-B.Tech- CSE/ECE/EEE/ME/CE from 28/9/2019 to 4/10/2019	200
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 .	12/10/2019	CTS specific training for IV-B.Tech-CSE/ECE/EEE/ME from 11/10/19 to 13/10/19 28/10/19 to 1/11/19	180
CODENOW, Survey no.66, 3rd floor, Block II, Flat No:319, Kandlakoya, Medchal Road, Hyderabad, Telangana-501401 .	12/10/2019	CTS specific training for IV-B.Tech-CSE/ECE/EEE/ME from 28/10/2019 to 02/10/2019	150
Spoorti Foundation (Cat Z Organization), Survey No. 324, Dundigal Village, Qutbullapur Mandal, Ranga Reddy District Telangana 500043	06/02/2019	Visted Orphanage and organized a programme on ENGINEERING PROJECTS IN COMMUNITY SERVICES	2

JPS Engineering Services Industry.Plot NO5-5-35/32,Prashanthinagar,Kukatpalli,Hyderabad-500072.	01/07/2019	EPICS projects	40
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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
1720	1863.36

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	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
Library is equipped with NewGenLib Software for better functioning of the library	Fully	3.2	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	44591	7343691	756	400104	45347	7743795
Reference Books	30933	2154955	353	210684	31286	2365639
e-Books	439	1123499	16812	88376	17251	1211875
Journals	126	666372	135	245147	261	911519

e-Journals	20	4310551	7323	2359089	7343	6669640
Digital Database	1	0	1	240000	2	240000
CD & Video	788	0	100	Nil	888	0

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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. A.Sai Kumar	Machine Drawing	ICT Rooms	22/07/2019
Mr.D.Ajay	Robotics	ICT Rooms	09/03/2018
Dr.VV Kondaiah	Design of Machine Elements	ICT Rooms	23/03/2018
Mr.Joel Samuel	Strengths of Materials	ICT Rooms	06/11/2018
Mr.Ch. Rajendra Prasad	Hydraulics and Hydraulics Machinery	ICT Rooms	10/03/2018
Mrs. R.Sahithi Reddy	Finite State Machine	ICT Rooms	03/12/2018
Mrs.S.Sangeetha	Solar Converters	ICT Rooms	17/02/2020
Dr.A. Poongodai	DAA	ICT Rooms	13/02/2020
Dr. M. Suresh	Computer Vision	ICT Rooms	13/02/2020
MR.M.Prasannanjan eyulu	Multiple Integration	ICT Rooms	10/03/2018

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#### 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	1731	32	100	2	2	1	1	100	0
Added	0	0	0	0	0	0	0	0	0
Total	1731	32	100	2	2	1	1	100	0

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

100 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
--	--

**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
782.79	711.63	487.23	442.94

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)

The maintenance and utilization of physical, academic and support facilities are governed by standard procedures as mentioned below, concerning Laboratories, Library, Sports center, computer systems, and classrooms. All the Laboratories are maintained in proper working conditions in terms of the premises as well as all pieces of equipment, i.e., consumables and non-consumables, as overseen by the concerned Lab In charges. Separate registers are maintained for lodging complaints, stock keeping works executed, etc. The repair and servicing of equipment are carried out after obtaining statutory approval of the concerned Head of the Department, Principal, and Secretary. The lab in-charge and the concerned faculty ensure proper utilization of the laboratory premises and instruments/equipment. The procurement of new equipment is as per the standard procedures wherein, the lab in-charge applies to the Principal through the Head of the Department. Upon obtaining approval from the Secretary, quotations/tenders are invited based on the tentative cost of the equipment. The Central Library is headed by the Librarian who oversees the maintenance and utilization of the premises and all the books, data, etc. The library staff maintains books in the lending as well as reference sections, stacked in catalogued racks segregated branch wise. The issue and return of the borrowed books are maintained by the library software. Procurement of new titles, volumes etc. is carried out once every academic year, based on the inputs received by students, faculty members and the Library committee. Remote access to all online content is made available to all the faculty members. The students can access the same using dedicated systems available within the library premises. The subscription and renewal of the online journals are undertaken and overseen by the librarian and the library committee for each academic year. The sports center is headed by the Physical Director who oversees the maintenance and utilization of the sports premises as well as all sporting items/equipment, grounds, etc. List of sporting items, equipment, etc. are maintained in stock registers. The issue and return of sporting items are overseen by the Physical director and his/her support staff. Service, repair of sporting premises and/or equipment/items are carried out as per the due standard procedures, with the express approval of the Principal and the Secretary. The conduct of intra and intercollegiate sporting events/tournaments are conducted under the supervision of the Physical Director. Maintenance and upkeep of all computer systems in the Institute is carried out by a dedicated team comprising of the system administrator and technicians. Complaints/grievances about systems and/or peripherals are raised by faculty members and routed through their respective heads of the department to the system administrator for necessary action. However, the procurement of new systems is carried out only after the approval of the Principal and the Secretary. The system administration team also ensures the provision of all LAN connectivity for proper access to internet facilities in the Institute. All the

classrooms, seminar halls, auditoriums, etc. are ICT enabled and maintained under the supervision of the Administrative Officer. All works related to periodic inspection,

<https://cmrcet.ac.in/wp-content/uploads/2021/12/4.4.2-landing-Page.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	Rewards to AcademicToppers	52	108000
Financial Support from Other Sources			
a) National	Reimbursement of Tuition Fee (RTF)	2017	98450000
b) International	Nil	Nil	Nil
<a href="#">View File</a>			

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
Soft skill development	17/07/2019	422	Trimuphant Training solutions, Hyderabad
Remedial Coaching Classes	04/05/2020	217	Remedial Classes Committee, CMRCET Faculty
Language Lab	01/07/2019	840	Language Lab Committee, CMRCET Faculty
Bridge Courses	05/08/2019	84	Bridge Course Cell, CMRCET Faculty
Yoga and Meditation	24/08/2019	834	Yoga Club, CMRCET Faculty
Personal Counselling and Mentoring	15/07/2019	840	CMRCET Faculty
Programs on Health and Hygiene	05/08/2019	675	Niruja Health Club, CMRCET
Awareness of Trends in Technology	08/04/2020	840	Resource Persons from Other Institut es/Industryt
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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	Number of benefited students by	Number of students who have passed in	Number of students placed

		competitive examination	career counseling activities	the comp. exam	
2019	TCS CODE VITA TRAINING to IV-B TECH-CSE/ECE Students from 06TH JULY TO 11TH JULY 2019	356	356	72	649
Nil	TCS NINJA TRAINING to IV-B TECH -CSE/ECE/EEE/C E/ME Students on 8th ,10th july, 24th July to 02nd Aug 2019	153	153	72	649
Nil	GRE/IELTS Coaching Classes to IV-B TECH -CSE/ECE/EEE/C E/ME Students from 13/07/2019 to 24/08/019	623	623	72	649
Nil	Wipro Training-TalentNext (Centre) to IV-B.Tech-CSE/ECE Students from 1/08/2019 to 30/09/2019	363	363	72	649
Nil	Capgemini Training to I V-B.TECH-ECE/CSE/EEE Students from 26/08/2019 to 04/09/2019	545	545	72	649
Nil	Mindtree Training to IV-B.TECH-ECE/CSE/EEE Students	536	536	72	649

	from 16/09/2019 to 17/09/2019				
Nil	JAVA,DBMS Trainingto III-B TECH- ECE/EEE Students from 16/09/2019 TO 21/09/2019	563	563	72	649
Nil	C Programming (LEs)to III- B TECH- ECE/EEE( LEs) Students from 16/09/2019 TO 21/09/2019	546	546	72	649
Nil	Zensar Trainingto I V-B.Tech-CSE Students from 17/09/2019 to 25/09/2019	234	234	72	649
Nil	C Programm ingTraining to III-B -TECH- CE Students from 23/09/2019 TO 28/09/2019	137	137	72	649

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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
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations	Number of students	Number of stduents placed	Nameof organizations	Number of students	Number of stduents placed

visited	participated		visited	participated	
Accelq	20	3	Nil	Nil	Nil
<a href="#">View File</a>					

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	ME	Coventry University, UK	Master of science
2019	1	B.Tech	ME	University of Guelph, Canada	Master of science
2019	1	B.Tech	ME	The University of Western Australia	Master of science
2019	1	B.Tech	ME	University of Hertfords hire, UK	Master of science
2019	1	B.Tech	CSE	Main Clemson Campus	Master of science
2019	2	B.Tech	CSE	University of Texas	Master of science
2019	1	B.Tech	CSE	Pace university	Master of science
2019	1	B.Tech	CSE	University of greenwich	Master of science
2019	1	B.Tech	CSE	University of windsor	Master of science
2019	1	B.Tech	CSE	George Mason University	Master of science

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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	4
GRE	10
TOFEL	5
Any Other	54

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

Activity	Level	Number of Participants
----------	-------	------------------------

Sports Event-CMRCET Basket ball League	State Level Sports Event	60
Sports Event-Ultimate Kho Kho League, Volley ball Championship	State Level Sports Event	132
Sports Event-Elite Premier Cricket League	State Level Sports Event	96
Sports Event-6th TSIEC Football Tournament	State Level Sports Event	720
Sports Event-CMR Pro Kabaddi League	State Level Sports Event	72
Sports Event-Engineer's Throw Ball Indoor Games	State Level Sports Event	89
Sports Event-Talent Search 2020 Fresher's day	State Level Sports Event	702
Sports Event-Elite Soccer Cup	State Level Sports Event	72
Cultural Event-Women's Day Celebrations -Bouquet Making Competition	College Level Cultural Event	25
Cultural Event-Fresher's Day Celebrations - Mr. Ms. Fresher Competition	College Level Cultural Event	12
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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	II place	Internat ional	2	Nil	17H51A05N1	Manoj Palava Raju
2019	Runner	National	1	Nil	17H51A05D6	G. Snehith
2019	Runner	National	1	Nil	16h51a0264	E. Srikanth Goud
2019	Winner	National	1	Nil	16H51A05C1	.D Saikrishna Patel
2019	Winner	National	1	Nil	19h51A0378	C Pranav Teja
2019	Winner	National	1	Nil	19h51A04N5	G Ventakata Phanidhar Reddy

2019	Winner	National	1	Nil	19H51A0270	G Rahul Teja
2019	Winner	National	1	Nil	18H51A0136	Ch Hrithik Sagar
2019	Winner	National	1	Nil	19H51A05F5	B Venkata Pranay
2019	Winner	National	1	Nil	18H51A0173	J Satish Patil
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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)

The college has an active Students Council (Student conclave) which has student representatives. The members of the Student Council are selected. Objectives of the student council: 1.Promote the spirit of Indian citizenship and belongingness. 2.Hitch up the level of cultural events and cognitive awareness among the students of the college. 3.To impart strength and confidence to the ideas of students and volunteers who work for the college. 4.Create awareness and strengthen trust in the members of the Council, academic and administrative staff of the college. 5.Adapt permanently to the vision, mission and objectives of the college. Composition: 1.One final year(undergraduate) student representative of each department/advanced learner 2.One student (master level) representing each programme. 3.One student from Master of Business Administration (MBA) department. 4.Four students nominated by the principal from various communities like SC/ST, divyang and girl students. 5.General Secretaries of various clubs. Selection/Eligibility Criteria for Council Members: 1.Undergraduate student aged between 18-22 years and for masters-level the maximum age limit is 25 years for getting selected to the student council. 2.The candidate shall not have any criminal cases or disciplinary action taken by the disciplinary committee of college.. 3.The candidate must be regular and full time and they should also not have any dues of hostel/Institution fees in the institution. Roles and Responsibilities: 1.Prevention of ragging is the top priority in the instruction and prevention of ragging through counseling of the senior students and with the help of faculty and administrative members. 2.Govern the junior and the needy students to improve their technical and organizational developments through symposiums, workshops, and seminars. 3.Accompany with administration and faculty for the smooth functioning of various works. 4.Students facilitated and motivating for physical fitness through sports activities. 5.Instruct through various programmes with eminent personalities for career and personality developments. 6.Directorship of Annual sports day, cultural and technical (AZURA) fest. 7.Map out the programmes in the campus for healthy and cleanly environment 8.Tie up with various social organizations to understand the community through various activities like NSS, NCC and clubs. 9.All the programmes to be presented in front of the Council meeting and should get approval Through active participation, members of the Student Council and other student representatives frequently serve in following Academic and Administrative Bodies/Committees: IQAC, Class Review Committee, Library Committee, Canteen Committee, Hostel Committee, Women Empowerment Cell, SC/ST Cell, Cultural Committee, Sports Committee, Publications Committee, NSS Committee, Anti-Raging committee, Labs-Browsing/Computer lab Committee, Training Placement Committee, Grievance Redressal Committee, NCC Committee, Equal Opportunities Centre, ED Cell/Incubation Centre, and Ladies Waiting Hall Committee. Student Clubs: Co-curricular clubs like Coding Club, Cyber Security Club, Web Technologies Club Extra-Curricular Clubs like Photography Club, CMR

Talkies Club, Music Club, Eco Club, Health Club, etc. The student secretaries manage the Clubs and organize activities every Saturday afternoon. Besides, the students involve themselves in various professional society chapters like IE (I), SAE, ISTE, IEEE, IETE, CSI, ACCE, HMA.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

CMRCET alumni association is a registered body with registration number 981 of 2019 under MGR educational Society. All graduated students become members of alumni association. The members of the alumni association have regular interaction with the management, Principal, faculties and staff members regarding the overall development of the institution.

5.4.2 – No. of registered Alumni:

840

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

504000

5.4.4 – Meetings/activities organized by Alumni Association :

The Alumni association committee is formed every three years in Alumni meet and holds two executive committee meetings on an average every year and future plans are discussed. The main objective of the Association is to bridge the gap between the college and alumni. Annual Alumni meet is held in the month of December every year. Alumni meet is a formal function which consists of Registration, , inauguration, games, formation of alumni association, alumni interaction with students, cultural programs by present batch of students followed by lunch. The activities and contributions of alumni association are as follows: Alumni contribution for development of institution through non-financial means: Role in academic activities: The Alumni are members of Board of studies of each department. The Alumni serve as resource persons for Guest Lectures and seminars. The Alumni conduct mock personal interviews. The Alumni discuss business and entrepreneurship opportunities. The Alumni gives feedback on the syllabus and infrastructure available in college. The Alumni offers job oriented training. The Alumni those who are entrepreneurs arranges industrial visits to the students and provide inputs on how to start a new venture to turning them in to job providers. The Alumni guide the students about career opportunities in different fields. Alumni share their professional experiences with students. The Alumni visit campus at regular intervals to assist the new student batch in scheduling and coordinating activities, providing support and guidance to various student clubs. The Alumni extend their support in campus placements and summer and winter internship programmes. Some of the Alumni are employed as faculty in the college. They play an important role in academic and institutional development. Some of the members of alumni association are representatives of the IQAC committee. Role in Social responsibility: The Alumni participate in blood donation camps organized in the college every year. The Alumni participate in swachh bharat organized by the college. The Alumni help in arranging the NSS extension activities. The Alumni organize Practical Sessions on meditation for the students. The Alumni motivate the students to follow their path for the betterment of society. Guest Lectures: CSE-10 ECE-6 EEE-4 MECH-4 CIVIL-2 MBA-4 TOTAL-30

### 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)

The Institute has a strong system for representing authority at all layers of the institutional chain of command which brings the individual membership starting from Head of the Institution to the students. The college functions independently under the able guidance and direction of the Governing Council which consists of renowned Professors and Industry people as its members. The Principal is the key authority of the Institute working under the management members. The Principal has dispersed his powers to Deans, Controller of Examination, Heads In-charges of the departments, Co-ordinator of the IQAC of the College, Administrative officer, NCC officer, NSS officer, Librarian, Physical Education Director (PED), Training and Placement Officer and delegate members of the Institute Academic Council (IAC). Based on the need, they meet periodically to decide upon the various issues. In pursuance of its Action Plan for performance evaluation, assessment, accreditation quality upgradation of institutions of higher education, NAAC proposes that every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality sustenance measure. Hence IQAC of the college was established in the year 2014. Since quality enhancement is a continuous process, the IQAC has become a part of the institutions system and works towards realization of the goals of quality enhancement sustenance. The prime task of the IQAC is to develop a system for conscious, consistent catalytic improvement in the overall performance of the institution. For the same, during the post- accreditation period, it has channelized all efforts and measures of the institution towards promoting its holistic academic excellence. The Heads are empowered to plan and execute their activities such as subject allotment, purchase of equipment and consumables, maintenance, organizing activities like guest lectures, Symposia, conferences, workshops, value-added courses, training for the placement seekers and all other academic-related activities. They are empowered to recommend necessary In-plant trainings, Internships, MOUs and Industrial Visits. At the department level, the academic coordinators and classes in charge are empowered to perform academic related activities. The Heads frequently convene the Department Review Meetings (DRM) to discuss the strategies and plans with the Academic Coordinators, Class In-charges and mentors. The lab In-charges are also provided with individual powers to lead their laboratories. They can also suggest the requirements and maintenance of the pieces of equipment. Case Study of preparation of Academic and Event Calendars Every year, the Academic Calendar is primed at the end of the preceding academic year. The Principal organizes a meeting with the Deans, Heads, Controller of Examinations, Training Placement Officer and Physical Education Director. The following schedule is discussed and finalized by considering the suggestions and inputs taken from all the members. The Academic Calendar comprises of Starting day of semester / Spell of Instructions / Mid Exam Schedule/Preparation holidays/End exam schedules/Vacation Schedule. The Event Calendar comprises of Technical fests/Non-technical fests / Activities of Clubs, Parent-Teacher Meets, Cells and Committees / Annual Day Celebrations/Traditional Day /Fresher's Day/Sports Day/Conferences / FDPs / Workshops.

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

Yes

## 6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	Admissions will be taken by the norms

of Government. 70 of seats will be filled under convener quota by Govt. of Telangana through common admission test (EAMCET). 30 of seats will be filled under management quota by the institute. All admissions will be ratified by the Telangana State Council of Higher Education (TSCHE). AICTE will approve the intake in each program and the same will be verified and sanctioned by the affiliated university JNTUH. Sometimes the sanctioned intake approved by the affiliated university JNTUH may be less than the sanctioned intake approved by AICTE due to various policies given by the affiliated university and the state Govt. All admissions as per University sanctioned intake.

Curriculum Development

Curricula development To develop the curriculum in line with the local/national/regional/global developmental needs, the following procedures are exercised in revising the curricula. ? Present industry trends/expected industry requirements in near future are analyzed through feedbacks from industry experts. ? Structured feedback from students, alumni, employers and experts from academia is analyzed. ? Community related/local industry problems are identified during the students field visits. ? To prepare the curriculum relevant to the local/national/regional/global developmental needs, curriculum development and approval involves deliberations at various levels through relevant committees. ? The recommendations of these committees are forwarded to Board of Studies to consider programme structure, curricula and syllabi Experts from academia and industry are engaged in developing graduate attributes, educational objectives and learning outcomes for courses and programmes keeping in mind latest trends in education and changing requirements of industry.

Teaching and Learning

CMRCET adopts student centric methods to make the Teaching Learning process more effective for the holistic development of students through Experiential learning, Participative Learning and Problem solving Methodologies. Faculty of the institute

imparts subject knowledge as per the syllabus and curriculum and foster self management and usage of knowledge, holistic development and skill development through participatory learning activities. The following activities have been adopted by the faculty and they adorn student-centric methods: Experiential learning: Laboratory sessions Curriculum was designed in such a way that sufficient emphasis is laid on hands-on experiments required for comprehensive understanding of the subjects. The laboratories, software and model experiments are beyond curriculum and oriented towards R D. Industrial visits Study without practical approach is not considered as worth in this challenging and competitive environment. Putting that aim in mind we always take our students to various industries in order to make them understand the classroom concepts in a better way. Field works and Internships The main motto of Field works/Internships are educational and career development opportunities, providing practical experience in a field/discipline. Industry Oriented Mini Projects Students are encouraged to take up any industry oriented application in his/her field of interest in their respective branch/field. Community outreach programme Students are taken to community visits under social innovation and practise. We will make them to understand real world societal problem. After visit they should understand and design solutions for at least one problem. Participative Learning: Expert Talks, Workshops and seminars Students are encouraged to participate in workshops expert talks and seminars organized by various professional societies, esteemed institutes and industries. Group Discussions and Role plays The purpose of a group discussion is not to win an argument but it is to help each group member explore and discover personal meanings of a text through interaction with other people. In the Language lab students will get an opportunity to participate in group discussions. To improve the students presentation skills and communication skills our language lab makes students to do role

plays MOOCs MOOCs committee encourage students to do online courses to explore beyond the curriculum Problem Solving Methodologies: Developing Models in Engineering and Science: Science often involves the construction and use of a wide variety of models and simulations to help develop explanations about natural phenomena. Models make it possible to go beyond observables and imagine a world not yet seen. Project Based Learning : Project Based Learning is a teaching method in which students learn actively by engaging in real-world and personally meaningful projects. Students work on a project over an extended period of time from a week up to a semester that engages them in solving a real-world problem or answering a complex question. CodeAthon: The Club encourages the students to develop algorithms and solve problems based on real world scenarios. The club organizes Weekly Monthly challenges, which will be popularly known as Hacker Week Codiators respectively.

**Examination and Evaluation**

CMR College of Engineering Technology offers B.Tech, M.Tech and MBA programmes, which are of Semester pattern. The Examination Branch consists of Principal (Chief Superintendent), Dean (Examinations Evaluation), Controller of Examinations, three Assistant Controllers of Examinations (ACE-I, ACE-II, and ACE-III) and other supporting Staff. The Examination Branch of CMRCET is a confidential section with the responsibility of Student registrations, Conduction of Examinations, Evaluation, the Publication of results, and maintenance of student records for all courses offered by CMRCET. To discharge the above responsibilities the Examination branch has adopted the following procedure. As per the Academic Calendar Examination branch issues, Internal Examinations time table twice in a Semester, three weeks in advance the commencement of the Examinations. Examination branch also issues a notification to End Semester Examinations, at least six weeks in advance before the commencement of the Examinations. After completing Student Examination registrations through their

personal Log in Id details, the ACE-I, generates a list of Students enrolled for the Examinations, Student Hall Tickets, OMR Sheets containing student data. The ACE-II is responsible for conducting the Examinations. He / she looks after seating plan, D- forms, distribution and collection of answer scripts, packing the same and handover to Assistant Controller of Examinations- III for Valuation. The ACE-III digitizes the answer scripts (cutting, scanning, and bundling). The digitized bundle with a maximum of 40 scripts is generated and is sent to two Evaluators for Evaluation. The results committee appointed by the University approves the results for publishing. The published results are made available on the website. An aggrieved student who has a grievance shall make an application and submit to the examination branch. The same can be redressed by the Exam Grievance committee. Institute strictly adheres to the academic calendar for sincere, systematic and strategic conduction of examinations and publication of the results.

Research and Development

The RD Centre of the Institute is recognized by the Scientific and Industrial Research Organizations (SIRO) and the Department of CSE is recognized as a Research Centre by JNTU Hyderabad and established several Centers of Excellence in association with industries of repute. Financial support is also extended to all the students and faculty in the form of SEED Money provided through IQAC. SEED Money is provided to carry out for preliminary work to improve the possibility of acceptance of funding. To encourage good publications, the organizations give reward/incentives to the faculty and students for publishing their research articles in reputed journals and also refund the publication charges of journal. Organizing trainings and workshops that help students to increase the research skills. Memorandums of Association/Memorandums of Understanding have been signed with many industries and such a practice plays a vital role in interaction of faculty and students with the industries and design research projects

in collaboration with them.

Library, ICT and Physical  
Infrastructure / Instrumentation

LIBRARY The CMRCET Central Library boasts of an area of 2314.0 sq. m. which is divided into sections for Circulation, Periodicals, Newspapers, Digital Library, Multi-Media Systems, Stacking, Reference, Reading areas, etc. The Library is headed by the Librarian and overseen by an Advisory Committee consisting of one faculty member from each department, the Librarian, and two students. The committee which meets biannually envisages the following responsibilities: 1. To improve the Library facilities. 2. To plan the enhancement in the number of Books, Journals and Magazines. 3. To motivate the students towards improving their reading habits. All the books in the Library are digitally coded and managed through 'Newgenlib' Software with fully automation (version 3.2) since 2007. All the stakeholders are given access to e-resources and digital content of the Library can be accessed using the IP address <http://27.116.17.114> through 28 systems dedicated to browse the digital collection comprising of e-journals e-books from IEEE, ASCE, DELNET, N-LIST, EBSCO E-Books, KNIBUS Digital Library etc. available through LAN. The e-journals can be accessed from remote locations by all the stakeholders using the email ids given by the college and their passwords. Around 9100 Video lectures (NPTEL) are available for ready access from the digital library on IP 172.16.15.189 in the LAN. Holdings of the Library as on date are: Books : 78300 Titles : 12200 Journals : 202 Online Data Base : DELNET, N-LIST Medline and other databases of NLM US patents full text Cambridge Dictionary online ODLIS online Dictionary for library and Information Science National library and Information services Infrastructure for scholarly content CDROM : 500 Project Works : 3489 Back Volumes : 2583 e-Books:(EBSCO) : More than 6000 Facilities / Services available at CMRCET Library: Open Access System : Yes Reprographic Facility : Yes Page 61/114 03-11-2020 10:09:40 Self Study Report of CMR COLLEGE OF ENGINEERING TECHNOLOGY Printing Facility : Yes E- Question

Paper : Yes News Paper Clipping Service  
: Yes SC/ST Book Bank Scheme : Yes OPAC  
(Online Public Access Catalogue) : Yes  
Circulation : Yes New Arrivals  
displayed on Notice Board : Yes ICT  
FACILITIES 1. In the year 2014-15, 14  
classrooms were provided with ICT  
Facilities that increased to  
54classrooms by 2018-19 for e-learning  
and training programs. 2. Internet  
facility was upgraded from 30 Mbps to  
100 Mbps. 3. Three language labs were  
updated with infrastructure, computers,  
and software. 4. The library is updated  
with ILMS software. The management has  
been substantially augmenting the  
following IT facilities since 2014: 1.  
Internet connectivity was increased  
from 30 to 100 Mbps. 2. Intra-net  
connectivity is provided on the campus  
with 20 GBPS fibre optical cable. 3. A  
new firewall 'Cyber rom-300NG' was  
installed for the security of the  
campus network with filtering features.  
4. ERP software has been installed in  
2014 for student and staff information  
management. 5. All the systems have  
been provided with backup through the  
uninterrupted power supply. 6. Seqrite  
antivirus software has been installed  
for all the systems. 7. The Institute  
has 200 surveillance cameras. 8.  
Biometric attendance system for PG  
students and Faculty. 9. A centralized  
server room with 8 servers was set up.  
10. The Examination branch is fully  
automated with BEES BET PLUS software.  
11. IoT lab was established in 2018-19.  
Periodically computers are updated as  
under: Response: 1. A.Y. 2018-19: 300  
new HP computers were procured with a  
configuration of core i5 4th  
generation of 8GB RAM, 500 GB HDD. 2.  
A.Y. 2017-18: 500 new DELL computers  
were procured with a configuration of  
core i3 7th generation of 4GB RAM, 1TB  
HDD. 3. A.Y. 2016-17: 300 new DELL  
computers were procured with a  
configuration of core i3 6th generation  
of 4GB RAM, 500GB HDD. 4. A.Y. 2015-16:  
550 new DELL computers were procured  
with a configuration of core i3  
6th generation of 4GB RAM, 500GB HDD. 5.  
A.Y. 2014-15: 200 new DELL computers  
were procured with a configuration of  
core i3 4th generation of 4GB RAM, 500GB  
HDD. The total number of computers  
presently available is 1495 that is on

LAN. Frequency Up-gradation: • A.Y 2018-19: 200 computers were upgraded with 8GB RAM from 4GB in various labs. • A.Y. 2018-19: 3 new servers systems were purchased, with 2 servers of 64GB RAM, 16TB, 8TBHDD and 1 server with 128GB RAM, 18TB HDD along 12GB of the graphic card in the serverroom. • A.Y. 2017-18: RAM capacity of the 2 server systems was upgraded from 8GB to 16GB and 8GB to 24GB respectively. • In the A.Y:18-19, 17-18,16-17,15-16, and 14-15 Computers were patched out at 236, 407, 246, 455 and 40 respectively. Internet Wi-fi • Full coverage of Wi-Fi. • Extension of Wi-Fi to the canteen. • 100 Mbps speed internet. • 7 Wi-Fi access points with extenders provided to cover the entire campus. • Internet connectivity to all computers. • In the A.Y 2017-18, the Cyberoam firewall was deployed for handling enhanced load on network and applications, catering to academic and administrative processes, for a secure campus network. Internet Provider: Vainavi Industries Ltd. Available bandwidth: 100Mbps.

#### PHYSICAL FACILITIES AND ACADEMIC SUPPORT

FACILITIES The maintenance and utilization of physical, academic and support facilities are governed by standard procedures as mentioned below, concerning Laboratories, Library, Sports center, computer systems, and classrooms. All the Laboratories are maintained in proper working conditions in terms of the premises as well as all pieces of equipment, i.e., consumables and non-consumables, as overseen by the concerned Lab Incharges. Separate registers are maintained for lodging complaints, stock keeping works executed, etc. The repair and servicing of equipment are carried out after obtaining statutory approval of the concerned Head of the Department, Principal, and Secretary. The lab in-charge and the concerned faculty ensure proper utilization of the laboratory premises and instruments/equipment. The procurement of new equipment is as per the standard procedures wherein, the lab in-charge applies to the Principal through the Head of the Department. Upon obtaining approval from the Secretary, quotations/tenders are invited based on the tentative cost of the equipment. The

Central Library is headed by the Librarian who oversees the maintenance and utilization of the premises and all the books, data, etc. The library staff maintains books in the lending as well as reference sections, stacked in catalogued racks segregated branch wise. The issue and return of the borrowed books are maintained by the library software. Procurement of new titles, volumes etc. is carried out once every academic year, based on the inputs received by students, faculty members and the Library committee. Remote access to all online content is made available to all the faculty members. The students can access the same using dedicated systems available within the library premises. The subscription and renewal of the online journals are undertaken and overseen by the librarian and the library committee for each academic year. The sports center is headed by the Physical Director who oversees the maintenance and utilization of the sports premises as well as all sporting items/equipment, grounds, etc. List of sporting items, equipment, etc. are maintained in stock registers. The issue and return of sporting items are overseen by the Physical Director and his/her support staff. Service, repair of sporting premises and/or equipment/items are carried out as per the due standard procedures, with the express approval of the Principal and the Secretary. The conduct of intra and intercollegiate sporting events/tournaments are conducted under the supervision of the Physical Director. Maintenance and upkeep of all computer systems in the Institute is carried out by a dedicated team comprising of the system administrator and technicians. Complaints/grievances about systems and/or peripherals are raised by faculty members and routed through their respective heads of the department to the system administrator for necessary action. However, the procurement of new systems is carried out only after the approval of the Principal and the Secretary. The system administration team also ensures the provision of all LAN connectivity for proper access to internet

facilities in the Institute. All the classrooms, seminar halls, auditoriums, etc. are ICT enabled and maintained under the supervision of the Administrative Officer. All works related to periodic inspection, maintenance and repairs are carried out by the Administrative officer and his team of technicians and housekeeping staff. Proper utilization of teaching premises is ensured by all the faculty members as per standard norms. A dedicated team comprising a system administrator and technicians takes care of periodic maintenance and upkeep of all computer systems in the Institute. Proper utilization of systems is overseen by the Lab in charge and concerned faculties. The maintenance and upkeep of all classrooms, seminar halls, etc. come under the purview of the administrative officer and his/her team of technicians and housekeeping staff.

1. SOP for Building Maintenance Committee
2. SOP for Transport Maintenance Committee
3. SOP for Equipment Maintenance Committee
4. SOP for the maintenance of Computers and Networking
5. SOP for Electrical Maintenance Committee
6. SOP for Library
7. SOP for Sports Complex

Human Resource Management

Human resources are a crucial resource in offering quality higher education. This includes creative administrators, skilled teachers, and efficient support personnel. Our institution consistently strives to improve the professional development of teaching and non-teaching personnel through training, retraining, and motivating them for their tasks and responsibilities. The Institution believes in excellent, value-based education. Every year, the institution organises conferences, workshops, Faculty Development Programs, and Seminars in which the faculty actively participate. Management Encourage and expand financial assistance for professors attending other universities seminars, conferences, workshops, and faculty development programmes. Encourage research initiatives in many areas of interest. Non-teaching employees get training in areas such as computer skills and technology usage. They are also inspired and encouraged to pursue further education in their

fields of interest, with the institution providing necessary assistance.

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

E-governance area	Details
Planning and Development	PDQ, Bees Software Latest Versions are available
Administration	PDQ, Bees Software Latest Versions are available
Finance and Accounts	PDQ, Bees Software Latest Versions are available
Student Admission and Support	PDQ, Bees Software Latest Versions are available
Examination	PDQ, Bees Software Latest Versions are available

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	Daki Pavani	6 Days FDP On Recent Avenues in Civil Engineering RACE- 2020	Nil	100
2019	L. Hima Bindu	6 Days FDP On Recent Avenues in Civil Engineering RACE- 2020	Nil	100
2019	CH RAJENDRA PRASAD	6 Days FDP On Recent Avenues in Civil Engineering RACE- 2020	Nil	100
2019	Ravichandra. AP	1 week Workshop on Data Analytics	Nil	400
2019	L. Hima Bindu	6 Days FDP On Recent Avenues in Civil Engineering RACE- 2020	Nil	100
2019	Daki Pavani	6 Days FDP On Recent Avenues in Civil Engineering RACE- 2020	Nil	100

## 6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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)
2020	Workshop on Robotic Process Automation	Nil	17/01/2020	21/01/2020	31	Nil
2020	Faculty development program on Sensor Networks, internet of Things and Internet of Everything	Nil	20/02/2020	02/03/2020	48	Nil
2020	Faculty development program on Artificial intelligence and autonomous Vehicles	Nil	18/05/2020	30/05/2020	10	Nil
2019	One Week FDP on Sustainable Construction Materials in Civil Engineering " (SCMC-2019)	Nil	08/07/2019	13/07/2019	45	Nil
2019	Nil	One week FDP on Hydraulic Machinery	08/07/2019	13/07/2019	Nil	27
2019	One Week FDP On Recent Advances in construction	Nil	09/12/2019	14/12/2019	41	Nil

	Techniques Materials					
2020	Nine days FDP On Trends in Transportation and Geotechnical Engineering	Nil	20/04/2020	22/04/2020	40	Nil
2019	Conference on ICACCT	Nil	16/12/2019	17/12/2019	68	Nil
2020	Faculty development program on Artificial intelligence and Recommender System	Nil	01/06/2020	13/06/2020	17	Nil
2020	Workshop On Python	Nil	01/06/2020	13/06/2020	24	Nil
<a href="#">View File</a>						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
30 Days Coursera On AI for Everyone	3	14/04/2020	13/05/2020	30
11 Days Webinars On DESIGN OF SEISMIC RESISTANT G4 COMMERCIAL BUILDING USING ETABS	1	29/04/2020	09/05/2020	11
Two weeks FDP On Professional English Skills, CMRCET, Hyderabad	21	20/04/2020	04/05/2020	15
30 Days Coursera On Programming for Everybody (Getting Started with	1	14/04/2020	13/05/2020	30

Python)				
9 Days FDP On Trends in Transportation and Geotechnical Engineering	25	22/04/2020	30/04/2020	9
15 Days Webinars On Design of Pile Foundations	1	14/05/2020	28/05/2020	15
Two weeks FDP On Artificial intelligence and its application in civil engineering	22	04/05/2020	16/05/2020	13
3 Days FDP On Analysis and modelling of pandemic scenarios using empirical and GIS Techniques	4	18/05/2020	20/05/2020	3
4 Days FDP On BLENDED LEARNING	2	20/05/2020	23/05/2020	4
6 Days FDP On Civil Engineering Research-A step Forward	1	25/05/2020	30/05/2020	6
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
214	214	133	133

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Welfare measures: CMR CET duly recognizes the contribution of its employees in all aspects.</p> <p>1. Financial Assistance for higher studies: The College provides finance assistance for higher studies to the staff who have completed 5 years of service in the college.</p>	<p>Welfare measures: CMR CET duly recognizes the contribution of its employees in all aspects.</p> <p>1. Financial Assistance for higher studies: The College provides finance assistance for higher studies to the staff who have completed 5 years of service in the college.</p>	<p>1. Group insurance for the students. 2. Subsidized canteen facility. 3. Free training programmes.</p>

The financial support is 50 of total fee. 2. Financial Assistance for education of children: The College provides financial support to two children of the staff who have completed 5 years of service in the college. The financial support is 50 of total fee or Rs.50000/-. If both wife and husband are working in the college, the college provides financial support to only one child. 3. Financial Assistance for Health Care: The College provides financial assistance for Health Care to all staff members in the college. The staff can utilize Group Health family insurance Policy for Spouse and two dependants. 4. Sponsorship for Staff development: All the employees opting for Staff development Programmes are given with financial assistance and provided with an OD (On Duty). 5. Ex-gratia: The College provides Ex-gratia amount of Rs. 2, 00,000/- to the kith and kin of the employee on the demise of a staff member while in service. Welfare measures: CMR CET duly recognizes the contribution of its employees in all aspects. 1. Financial Assistance for higher studies: The College provides finance assistance for higher studies to the staff who have completed 5 years of service in the college. The financial support is 50 of total fee. 2. Financial Assistance for education of children: The College provides financial support to two

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## 6.4 – Financial Management and Resource Mobilization

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

Response: CMRCET Strictly believes in following all statutory requirements for all audits and accounting practices. The Institution conducts internal and external financial audits regularly. As part of this mechanism, the Institution has an in-house team of two auditors of M/s Srinivas Associates Chartered Accountants, Regd.No.0126S, who help in carrying out the internal audit. The team conducts an internal audit regularly and submits the report to the IQAC (Internal Quality Assurance Cell) Chairman. The IQAC Chairman attends all the major audit queries raised by the team and takes appropriate steps for remedial action. The external audit is conducted once in a year. The external audit is carried out by M/s MRK Reddy Chartered Accountants (Regn.No.003265S) who has an experience of over 20 years. The queries which are raised are put before the Principal who clarifies rectifies before finalizing the accounts. The Principal also contemplates and decides to appoint an Audit Sub-Committee that attends all the queries raised by the internal audit team and external auditors. The Objective of Internal External Audit: The primary objective of conducting Internal and External audit is to identify the discrepancies in the accounting process. The in-house team, consisting of two members, conducts the internal audit twice in a year and registered Chartered Accountants conduct the external audit once in a year. The departmental budget is followed and the optimal

utilization of funds and the monitoring of the budget are done through Internal and External Audit. After locating the discrepancies in the internal audit, a report is submitted to the IQAC Chairman who then reviews the report, discusses with all the IQAC members and then submits the report to Principal. The Principal directs the Accounts Officer to make the necessary corrections on internal audit. The Accounts Officer rectifies the identified discrepancies and submits the corrected audit report to the Principal through IQAC Chairman. All the financial rules that are implemented in the college take place through No-Cash transaction. Payment of fees is also done through online transaction. An effective Financial Management System is followed which takes utmost care to follow the best accounting practices which give no chance for financial mismanagement. External Auditors who are certified Chartered Accountants prepare the Audited financial statements including Income and Expenditure details, Audited Reports and then the same is filed in the Income-Tax Department.

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
RV Geo Services	45000	Student Project
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

65409038
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## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Internal Faculty
Administrative	No	Null	Yes	Internal Faculty

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

- Parent Teacher Meeting once in a Academic year
- Discussion about the student's welfare measures.
- Discussion on parents' feedback on curriculum and infrastructure.
- New courses added in the curriculum to improve employability skills
- New ideas and suggestions from the parent body to help and enhance the overall and all-round education experience

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

- Skill development program for non-teaching on " Basic Electrical Safety and Electrical Hazard Awareness"
- Fire extinguisher education awareness program
- Training program on Digital Payments.

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

1. All question papers have been designed with bloom taxonomy.
2. Skill Development Cell have been established.
3. Revised R D and Consultancy policy.
4. Revised student council cell has been established.
5. More number of centers of excellence has been established in each department.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
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
2019	A Guest Lecture on Research Methodologies	13/07/2019	13/07/2019	13/07/2019	300
2019	Awareness Workshop on Various Research Funding Agencies	17/08/2019	17/08/2019	17/08/2019	250
2019	Orientation and Induction program for the first year students	16/09/2019	16/09/2019	29/09/2019	900
2019	Motivational Talk on Entrepreneurship	21/09/2019	21/09/2019	21/09/2019	523
2019	Gender Sensitization to all faculty and Students	14/10/2019	14/10/2019	27/10/2019	625
2019	A Guest Lecture on IPR Patent, Trademarks	01/11/2019	01/11/2019	01/11/2019	224
2019	Workshop on Design Thinking	30/11/2019	30/11/2019	30/11/2019	352
2020	Workshop on Intellectual Property Rights (IPR)	06/03/2020	06/03/2020	06/03/2020	432
2020	Legal and Ethical steps-Productive Entrepreneurship and	12/05/2020	12/05/2020	12/05/2020	250

	Startup				
2020	Innovation, entrepreneurship and how to develop our skills and face situations	13/06/2020	13/06/2020	13/06/2020	334
<a href="#">View File</a>					

## 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
Democracy wall- Event by The Print	23/08/2019	28/08/2019	35	65
Cyber Security for Girls- Siddham	26/09/2019	26/09/2019	30	82
Day to Day challenges faced by girls	11/11/2019	11/11/2019	43	78
Drug abuse prevention Program	25/01/2020	25/01/2020	52	85
Women's Day	07/03/2020	07/03/2020	15	65

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
<p>? Every year doing Green Auditing and Environmental Auditing ? In our CMRCET 532 solar panels each of 312 watt capacity are installed by incorporating with 4 number of Inverters (4x40 kW/160 kW). ? The generated DC Electrical Energy is converted into AC Electrical Energy with the help of 4 numbers of Inverters. ? The generated solar power is fed to our CMRCET to full fill the electrical load requirement in parallel with the Power Grid. ? Whenever the load requirement of the Institution is less than the output from inverter, the excess power will be supplied to Grid ? Annual Power (Energy) Requirement met by the Renewable Energy Sources 1,45,386 units ? Total Annual Power (Energy) Requirement of the Institution: 3,61,248 units ? (1,87,368 units from TSNPDCL 1,45,386 units from Solar Plant 3,61,248 units) ? Percentage of Annual Power (Energy) Requirement met by the Renewable Energy Sources: 42.6 ? Formula <math>(1,71,125 / 4,01,761) \times 100 = 42.6</math> ? Energy Generated by the Solar Power Plant in one year (2019-20) is 2,15,862 units ? Energy requirement met by the Solar Power Plant in one year (2019-20) is 1,45,386 units ? Energy exported to the Grid by the Solar Power Plant in one year (2019-20) is 70,476 units ? The monthly average energy exported to the Grid by CMRCET Solar plant is 5,873 units ? of solar power utilized which is generated by the Institution is 67 ? of solar power exported to the Grid which is generated by the Institution is 33 ? The total lighting</p>

requirement 66,616 watt ? Percentage of lighting through LED bulbs 56 ?  
Percentage of Lighting through other sources 44

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	3
Physical facilities	Yes	5
Ramp/Rails	Yes	4
Braille Software/facilities	No	Nil
Rest Rooms	Yes	5
Scribes for examination	Yes	10
Special skill development for differently abled students	Yes	5

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	4	5	22/07/2019	7	SNAPP Online Mock Exam	Conducted Online Exam	115
2019	4	5	29/07/2019	9	InfyTQ Placement Drive	Conducted Online Placement Exam	570
2019	4	5	30/09/2019	14	TS ICET Exam	Conducted Entrance Exam TS ICET Exam	800
2019	4	5	13/07/2020	21	3 day Hand on exposure session on House	Its a hands-on session on House wiring and repairing to train the unemployed youth of nearby rural com	7

						munities, which may help them in starting their own workshop or to get a job in industries	
2019	4	5	03/08/2019	7	Briefing session on ohms Law	B. Tech students gave the briefing session on Ohms law to the students of ZPHS, Ravalkole . This session covers the importance of ohms law along with its effects and applications	27
2019	4	5	17/08/2019	18	Hands on exposure on Black Smithy related	Training program on Black Smithy related works to train the unemployed youth of nearby rural communities, which may help them in starting their own workshop or to get a job in industries.	5
2020	4	5	18/01/2	6		B. Tech	30

			020		Briefing session on Introduction to MS - Word	students will give the guest talk on MS Word to the students of UPS, KIsrapur. This talk will give the details of the MS Word along with its importance, flexibility and application	
2020	4	5	08/02/2020	18	3 Day training program on welding	hands-on session on welding to train the unemployed youth of nearby rural communities, which may help them in starting their own workshop or to get a job in industries	7

[View File](#)

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of Conduct	Nil	HOD's are responsible for smooth functioning of their respective departments to bring excellence in services. Collaborate with Administrative senates like Principal, Dean Academics and other Deans

for efficiency and effective utilization of resources to build strong Academic competencies. Faculty is responsible to meet academic roles with regards to teaching, training and department level administrative assignments for the development of the institution. Faculty should utilize ICT resources for the effective delivery of lectures. The student should adhere to the Academic Calendar specified by Academic Authorities to ensure the smooth completion of their program. Students are not encouraged to involve in anti-social activities within the campus. Ragging is strictly prohibited 75 attendance is mandatory. All the students should adhere to the rules and regulations

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
An Awareness Program on The Right of Children to Free and Compulsory Education (Amendment Act) , 2017	27/07/2019	27/07/2019	50
An Awareness Program on The Fugitive Economic Offenders Act, 2018	12/08/2019	12/08/2019	54
Hiroshima Nagasaki Day Celebrations to Promote Non Violence	16/08/2019	16/08/2019	72
An Awareness Program on The National Food Security Act, 2013	10/09/2019	10/09/2019	65
Awareness Program on Green Gifting	25/10/2019	25/10/2019	58

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

Initiatives taken by the institution to make the campus eco-friendly: 1. Energy Conservation All the compact fluorescent lamps (CFLs), mercury and sodium vapour (250 watt 125 watt) street lights have been changed to energy efficient Light Emitting Diodes (LEDs) bulbs and tube sets (40 watts) in the campuses in the campuses. 2. Rainwater Harvesting Rainwater harvesting systems are in operation in most of the buildings of the University. Both roof water and storm waters are harvested for various uses and recharging the groundwater. 3. Clean and Green Campus The campuses are covered with a mix of old and young trees, ornamental shrubs and herbs. All roadside trees are properly marked with common and botanical names. Planting of trees is a regular feature of the Institution and every year sites are identified for plantation. 4. Plastic Free Campus: 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 are regularly collected from office, canteen and different parts of the campus and disposed off in specified locations. Students are advised to reduce/replace printing and photo copying by reading on screen and not to use plastic cover in any of their project paper. 5. Solar Energy Consumption: There are many solar - powered products and technologies utilizing the sun energy. One of the major is solar hot water for residential or commercial purpose, the use of sun's heat to warm potable water supply instead of electricity is very efficient method and truly cost effective. Array of solar panels installed on roof top of buildings can be seen in the pictures above. It is part of solar system to provide hot water and is one of the major alternate sources of energy, which results in saving electricity a scarce resource in our country.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I Progression of Scientific Research Development (RD) Activities  
Objectives of practice: ? To encourage a strong culture of research amongst students and faculty. ? To provide support to all the research efforts of the faculty members and to encourage student research as part of the curriculum. ? To improve the quality of research publications. ? To induce the faculty to present their results in presumed journals / International / National Conferences and refine the on-going research work. ? To create an ecosystem for innovations, foster encourage entrepreneurship including incubation center, and other initiatives for creation and transfer of knowledge. ? To create awareness about Intellectual Property Rights and Patents, encourage Innovation and motivate them to apply for IPR/Patents. Context: ? Technical education paves the way for research, innovation and creativity. A strong base for research and development is very important to achieve this. Realizing the importance of research and development, the Institute RD Centre was established and the same was recognized by the Scientific and Industrial Research Organizations (SIRO), Department of Science and Technology. ? Develop and diversify courses beyond the curriculum so that faculty and students particularly from underprivileged backgrounds may have experience towards different domains of research and has the chance to opt for the same. ? The outcome of the research should be significant to the needs of the community and at least a segment of the society should be the target beneficiaries. Therefore, taking up research activities shapes a person with ethical liability and a value system that enhances his/her responsibility towards fulfilling the needs of the society. The practice: ? The RD Centre of the Institute is recognized by the Scientific and Industrial Research Organizations (SIRO) and the Department of CSE is recognized as a Research Centre by JNTU Hyderabad and established several Centers of Excellence

in association with industries of repute. ? Financial support is also extended to all the students and faculty in the form of SEED Money provided through IQAC. SEED Money is provided to carry out for preliminary work to improve the possibility of acceptance of funding. ? To encourage good publications, the organizations gives reward/incentives to the faculty and students for publishing their research articles in reputed journals and also refund the publication charges of journal. ? Providing 60 of revenue generated from consultancy project works to the faculty. ? Organizing trainings and workshops that help students to increase the research skills. ? Encouraging students and faculty to use research tools such as software, research equipment etc. ? Memorandums of Association/Memorandums of Understanding have been signed with many industries / agencies and such a practice plays a vital role in interaction of faculty and students with the industries and design research projects in collaboration with them. ? Reputed professors are invited to conduct/give workshops/lectures about the current and the best practices of research methodologies and Ethical Values. ? Research Development Centre conducts the Research Advisory committee (RAC) meetings timely to review the progress of research activities and also to suggest the activities. ? Annual Quality Assurance Report (AQAR 2019-20) IQAC, CMR College of Engineering Technology (UGC Autonomous), Kandlakoya, Medchal Road, Hyderabad, Telangana-501401. Evidence of success: ? Number of research papers published by the students and faculty has improved (around 187 research papers published in various UGC Journals) in AY 2019-20 ? More students and faculty members are participating virtually in national/international level seminars/workshops/conferences for presenting their research works. ? 76 faculty members are there in various departments with Ph. D in the last year and 48 faculty members are energetically engaged in pursuing the Ph.D degree. ? Funds to the tune of 357.57 lakhs have been received by faculty members from various funding agency for research and consultancy works which is boast-worthy for a growing organization like ours. ? An amount of 28 lakhs have been disbursed by the organization as SEED Money to the faculty and students. ? Number of students and faculty enrolling for higher studies in research from our Institution has gone up. ? Particularly the alumni of our Institution have been to research from various countries. ? No of research papers published by the students and faculty has improved in the last five years. ? No of research projects received by the faculty has improved in the last five years. ? No of consultancy projects done by the faculty has improved in the last five years.

Problems encountered: ? Timely response from funding agencies will be encouraging. ? It is difficult to balance teaching and supervising duties especially in research works. ? Instance restraint is a support in the helm in preparation and implementation of research particularly for the period of decisive and comprehensive consideration processes and when adhoc responsibilities are assigned. ? Additional liberal seed money advances from the organization for initial work or while awaiting funds from agencies is always welcome. ? If the funding agencies can point out the reason for rejecting the research proposal or recommend suggestions for upgrading, it will go a long way in the development to faculty and hence the students. Resources required: ? Infrastructure like department wise research laboratories, Human resource, High-end Servers, meeting rooms, discussion rooms, spatial requirements, and Financial Grants. Best Practice-II SEWAGE TREATMENT PLANT (STP)-200 KLD CONSTRUCTED WETLAND SYSTEM • Sewage treatment plant of 200 KLD is based on No Chemical and No energy, phytoremediation technique. • Sewage waste is collected form CMRCET , CMRIT and Girls Hostel. • It is the most natural way to revitalize the wastewater so that the quality and natural properties of the water are sustained and we get recycled Water in the best form. • System Consist of Integrated constructed wetlands known as phytoremediation system, globally proven for decades and established across the world. • These are engineering systems that use the natural functionality of vegetation,

sediments, substrate, natural media and microorganisms to purify the wastewater. • The entire system uses the natural slope of the terrain to transfer wastewater to the natural plant-based twin treatment tank units. • This plant uses naturally available resources from Mother Nature to transform wastewater into clear water with less energy consumption. ? No Chemical ? Low Maintenance ? No Breakdowns ? Longer life span ? Increased efficiencies with time ? No dependency on the technically qualified person ? Cost-effective ? Environmentally Compatible, Green aesthetically

CMR COLLEGE OF ENGINEERING TECHNOLOGY KANDLAKOYA, MEDCHAL ROAD, HYDERABAD - 501401. SOLID WASTE MANAGEMENT AAGA COMPOSTING UNIT

S.No Particulars Value  
 1 Diameter of each AAGA unit 1.067m  
 2 Height of each AAGA unit 0.9652m  
 3 Volume of each AAGA unit 0.862m<sup>3</sup>  
 4 Capacity of each AAGA unit 200kg  
 Capacity of two AAGA units 400kg  
 5 Waste generated from canteen (Vegetable and Fruit peels) 16 kg/day  
 6 Total waste generated from canteen in 2 months to accommodate in two AAGA units 360kg

Technical Note: ??This aerobic centralized composter makes composting simple, labor saving and hassle free especially for institutions. ??It requires no electricity to run. ??The internal 'breathing tower' regulates air flow and controls bad odor. ??The waste need not to be mixed stirred or shifted. ??AAGA unit made from UV stabilized, roto moulded plastic for use on harsh weather conditions and also rodent proof. Guidelines for Maintenance of AAGA Composting Unit:

- The waste (vegetable and fruit) need to be filled in layers in AAGA unit
- After each layer of waste, coco peat is to be added in AAGA unit
- After 5-6 days of filling the waste in AAGA unit, microbial compost powder is to be added for quick composting of the waste.
- During the process of composting, a liquid waste generated and collected it in bottles and kept for fermentation for 1 month. Fermented waste used for farming the plants.
- After 2months, composted vegetable and fruit peels are kept for drying then used them in the farming.

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

<https://cmrcet.ac.in/wp-content/uploads/2021/12/Best-Practices-I-and-II.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

Distinctive Practice Centre for Engineering Education and Research (CEER)

Objectives: CEER as a centre proved for its distinctiveness, includes the following objectives : ? To drive the faculty towards research and provide the platform for the improvement of Engineering Education. ? Assisting one another to collaborate for empowerment of the knowledge and skills in Engineering Education ? Need to identify and train the competent student faculty to handle the service based and problem-solving aspects ? Provides the facilities/resources to train the student faculty in multidisciplinary aspects, critical and design thinking aspects for effective and smooth functioning of the course work ? To provide academic and technical training to neighboring Government schools ? Identify the genuine NGO partners for continuous interaction and support in promoting service/project-based learning ? Interact with officials of nearby villages/communities to educate and develop the field community projects which enhance the students' self-learning skills, problem-solving techniques, interdisciplinary, team building and management skills.

Context: In India, around 15 of the 10,00,000 graduates are with sufficient employability skills. Though graduates are technically sound, they face challenges in Social consciousness, Community engagement, Problem Solving, team-building management skills, resulting in technocrats with complete social disconnectivity. After brainstorming with various stakeholders of institution, the following are the issues to be addressed in order to meet the challenges:

1. Social awareness social responsibility. 2. Contribution Coordination skills. 3. Self-initiative self-learning skills. The Practice: To achieve the above-mentioned objectives, CEER was established in 2017, with 15 faculty members from various engineering disciplines. It adapted several new and innovative practices, majorly divided into four broad sections as: 1. Introducing of new engineering courses 2. Engineering Projects in Community Services Program 3. Strengthening Naipunya club activities 4. Enhancing Teaching-Learning Practices

? Introducing new Engineering Courses: To enhance students' problem-solving skills, community engagement, and team building management skills, the centre introduced two new freshmen engineering courses, in order to develop and implement new ideas to meet social needs and create social relationships collaborations with various communities. ? Engineering Projects In Community Service (EPICS): With the motto of service based learning, EPICS was introduced in 2014. It is taken under the umbrella of CEER from 2018 considering the concepts of social responsibility community engagement. ? Strengthening Naipunya Club activities: This is to spread the knowledge across the rural community and government schools. It offers training to unemployed people of nearby villages to improve their skill set to improve employability opportunities, Assisting neighboring Government school teachers and students. ? Enhancing Teaching Learning Practices: CEER has extended its collaborations with national and international bodies for upgrading faculty skillset. CEER faculty are encouraged to publish papers on non-engineering zoners like Engineering Education, and community studies etc.. Process of execution: 1. Introducing Freshman Engineering Courses: Three courses were introduced in B. Tech. curriculum to adapt effective active learning methodologies for content delivery.. Part 1 : Engineering Exploration Practice (I Year). The interdisciplinary students' teams will be given a need based statement to implement

Provide the weblink of the institution

<https://cmrcet.ac.in/wp-content/uploads/2021/12/Distinctive-Practice.pdf>

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

- To be ranked by NIRF in the top Band.
- To attract better input of students of below 1000 rank in state level entrance test (EAMCET).
- To get the institute accredited by NBA under Tier-I.
- To get lucrative Packages in Placements From Good MNCS
- To ensure centre of excellences in each department work on par with the industry standards.
- To upgrade the existing laboratory facilities as per the latest technology.
- To establish patent cell and incubation centre.
- To establish maker space to facilitate fabricating prototypes on campus.
- To upgrade the existing internet band width from 300Mbps to 1Gbps.
- To provide infrastructure for self learning facilities through MOOCS.
- To maintain a conducive academic and research environment on campus, with 30 percent of the faculty holding a Ph. D.
- Each faculty member should be encouraged to attend at least one Faculty Development Program per semester to keep up with current technical advances in the industry.
- To encourage faculty to engage in self-learning and continuing education, they will be advised.
- To encourage professors to publish their research in peer-reviewed journals and conferences, as well as to provide financial incentives for high-quality publications.
- To apply for a Recognized Research Centre funding from the university.
- Obtain funded projects worth at least 20 crores for at least 20 of the faculty.
- Developing in-house RD by providing the necessary infrastructure and financial support.
- To increase the consultancy works.
- To file at least 50 patents by 2020.
- Separate SDC Cell
- To improve students Internships and Placements.
- Strengthening Centre for Innovation and Entrepreneurship(CIE)
- Industry Certification Programs
- To enhance the teaching/learning environment
- To put in place outcome-based education.
- To introduce a credit system that is based on the users preferences.
- To entice students to take online certification courses

such as NPTEL. • Ensure that institutions are ready to adopt current and future technological advancements by promoting and supporting their preparedness. • To train the faculty to set the question papers as per the Blooms level. • To introduce assessment methods apart from theory based assessment.