SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

CMR TECHNICAL CAMPUS

KANDLAKOYA (V), MEDCHAL ROAD, HYDERABAD
501401

www.cmrtc.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

CMR Technical Campus was established in 2009, sponsored by CMR Technical Education Society with a vision and mission of imparting quality technical education to the deserving and meritorious students. The institute is located in semi urban area on Hyderabad-Nizamabad-Nagpur highway, about 20 km from Secunderabad. The college has a sprawling campus of 10 acres with lush greenery. The total built up area is **33,539.60** Sq m.

The institute is permanently affiliated to Jawaharlal Nehru Technological University Hyderabad. 70% seats are filled by the State Government based on State wide common entrance test (EAMCET) ranking on merit cum preference basis following the reservation policy of the state government including differently abled, children of Armed Personnel, Sports and NCC. The remaining 30% of seats are filled under the management quota, by merit, among the seekers from within the state and other states.

The institute has a staff selection committee comprising experts from institute, affiliating University and other institutions. Faculty evaluation is done by well-established feedback system. Institute has well qualified, highly committed and dedicated faculty. Faculties are encouraged to organize seminars/workshops, and engage in research, consultancy, and publication.

Teaching learning process is given utmost importance. Faculties are responsible for preparing comprehensive course contents preferably in digital format. The institution conducts remedial classes, bridge courses, communication skills development programs, pre-placement training, group-discussions etc., for overall development of the students. It also conducts Workshops and Guest Lectures by inviting experts from the academia and the industry to upgrade the technical skills of the students.

Vision

To impart quality education in serene atmosphere thus strive for excellence in Technology and Research.

Mission

- To create state of art facilities for effective Teaching – Learning process.
- Pursue and Disseminate knowledge based research to meet the needs of Industry & Society.
- Infuse Professional, Ethical and Societal values among Learning Community.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Visionary management with a mission to escalate academic heights.
- Permanently affiliated to Jawaharlal Nehru Technological University, Hyderabad.

- All eligible UG programs are accredited by National Board of Accreditation.
- Recognized by UGC under section 2(f) & 12(B) of UGC act 1956.
- Certified as Scientific and Industrial Research Organization (SIRO) by DSIR.
- Well qualified, experienced and dedicated faculty with sufficient number of Ph. Ds.
- Received funding to the tune of two crores from different government agencies.
- Research centres are established in different domains across all departments to promote research and consultancy.
- MOUs with reputed industrial and research organizations.
- Professional chapters like ISTE/CSI/IEEE/IETE/ACCE/SAE are established.
- Incentives for R&D activities.
- Incentives for student-participants in National & International sports/games.
- Assistance to staff and students for attending National/ International conferences.
- IQAC has been established for Quality Audit to improve TLP.
- Excellent infrastructure facilities with State-of-the-Art Laboratories and Computer centres.
- Entire campus is Wi-Fi enabled including hostels.
- Well stacked library with good number of National and International journals.
- State of art infrastructure & 1200 seating capacity auditorium.
- Ragging-free Campus.
- Explicit Training & Placement Cell to provide continuous training for students.
- Mentoring on one-to-one student basis as required.
- Active student participation through various Cells/Clubs/Committees.
- Student participation in community development programmes through NSS and various other technical clubs.
- Active registered Alumni Association.
- Situated on NH-44, 20 km from Secunderabad and well connected to every corner of city through Outer Ring Road.

Institutional Weakness

- Industry collaboration towards patents and advanced research is limited.
- Dearth of senior faculty with industrial research experience.
- Delayed release of scholarship funds by state government.
- Strengthening of industry institution interaction.
- Being a self financed institution, government funding is conservative
- Potential research proposals in allied and thrust areas.

Institutional Opportunity

- Global demand for technical manpower is ever growing.
- State Government is providing financial aid to the students' from weaker section.
- Engineering education at affordable cost.
- Many of the neighbouring state students are opting of education in Telangana state.
- Institute can become autonomous under UGC and seek funds for cutting edge technologies in emerging areas of Engineering.
- Design of own curriculum in line with industry requirements periodically.
- Academic programmes in association with professional bodies & industry associations.

- Financial assistance for potential UG projects.
- Collaborative student-projects with industries.
- Strong alumni base to strengthen industry links.
- Several core and software companies within the vicinity.
- Private, state and central government R&D labs are available for internships & projects.
- Facility to groom entrepreneurial skills.

Institutional Challenge

- Lack of academic autonomy especially in designing curriculum and syllabus.
- Though institute has competency for TEQIP, but due to its age (<10 years) could not avail.
- Consultancy assignment from industries.
- Majority of admissions are from rural areas causing concern for improvement in communication skill.
- Inability to meet industry demand with appropriate skill-set.
- Zero drop-out rate & attendance detentions.
- Motivating students towards research.
- Linking the research outcome to industry applications.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institution takes utmost care in developing the programme chart for the effective implementation of the curriculum. Being affiliated to JNTUH, the syllabus and the overall guidelines are followed as laid down by the University.

The Director of the institute conducts meetings with Deans and HODs to explore the strategies for the effective implementation of the curriculum. The institution designs and develops action plan for effective implementation of the syllabus prescribed by the university. The presence of experienced faculty at various bodies as members of BoS and Academic Council helps the institute to plan and execute the curriculum effectively. The institute activities pertaining to curriculum are focused towards achieving the institute's Vision, Mission and Objectives.

As per prevailing industry trend some special skills and aptitudes as topics beyond curriculum are inculcated to the students from time to time. The institute also conducts certification/ Add-on programs to impart technical and life skills. This would make the students industry ready. The institute makes the provision for the students to undertake field projects and internship at various industry and research organisations. Timely feedback from the different stake holders like students, teachers, employers, Alumni and parents provides valuable inputs for design and review of syllabus accordingly. Feedback system is formulated and practiced for effective implementation of the prescribed syllabus.

Teaching-learning and Evaluation

The success of an academic institute lies in its teaching and learning processes, wherein every stakeholder plays vital role in achieving it. The admission process of the institute is managed by admission committee headed by

Administrative Officer, which is responsible for various forms and prospectus. It owns the responsibility of counselling as per the guidelines of Telangana State Council of Higher Education and subsequently the profile of admitted students is created. The committee ensures the reservation policy is not violated and at the same time, considerations are made for admission of other state students.

As per the academic calendar, individual faculty members are instructed to schedule their teaching and evaluation, which is interactive and participative. Student being the prime stakeholders, the institute facilitates mentee-mentor provisions which help in devising proper strategies for slow and fast learners. The institute strictly follows the instructions of the affiliated university in maintaining the recommended faculty student ratio, ensuring quality education. The quality of the faculty present in the institute is highlighted by the number of awards and recognitions they have achieved. Given the examination pattern of the affiliated university the institute observes a continuous evaluation process with transparency. All the courses including theory and laboratory are defined by specific COs and POs and available on the website. Timely student satisfactory surveys are conducted and feedbacks are discussed in the respective committee for proper action.

Research, Innovations and Extension

Promotion of research is one of the essential parameters for quality enhancement. IQAC and R&D Centre take the quality initiative to publicize the facilities, resources and areas of consultancy services of faculty members to the stakeholders through the institute website. The institute has tie ups with R&D organizations and companies to carry out research at its campus. The R&D Centre has a strong vision of promoting research in diverse areas. It consists of senior researchers who guide the faculties on funding agencies for minor / major research proposals and for conducting seminars / conferences / workshops at National / International Levels.

The institution has well qualified faculty members and their expertise is witnessed in the form of being recognized Research Supervisors, Principal Investigators of ongoing research projects funded by government agencies to the tune of two crores, authors of books, editors of chapters/volumes and even has published more than 300 research articles in reputed journals/conference with good citation index / impact factor. In addition, few faculties have received distinctive awards and recognitions. The institute recognizes and rewards researchers and their publications suitably on the Annual Day and suitable gathering.

The students are socially sensitized and made aware of their responsibilities through community service programmes organized by NSS, Sahaya and Outreach programmes. Linkage with industries, reputed institutions, research centres / social service organizations is formed for enhancing research, providing hands-on experience / on-job training and carrying out social welfare programmes.

Infrastructure and Learning Resources

Infrastructure plays an important role in building the brand of institute. The institute not only has stipulated number of class rooms, laboratories but also well equipped seminar halls, staff rooms for conducting day to day academic activities. Facilities like departmental libraries, computer centre with 200 systems, 1200 capacity auditorium are also available for the entire stakeholders. Considering physical activities also to be equally important, institute created several indoor/outdoor sports facilities which include indoor sports complex, play ground, Gymnasium and Yoga Centre.

Library being hub of knowledge, it is vital to have sufficient tittles and subscriptions to cater the needs of

students and faculty. It has an impressive collection of 33600+ volumes of 3600+ titles and 130+ plus National & International print Journals, 17 Magazines and 7 News papers to cater to the Engineering and Management streams. The library books can be easily accessed through the use of Online Public Access Catalogue (OPAC) and is fully automated with the Integrated Library Management Software.

The IT infrastructure strategies are developed as per the guidelines of AICTE & affiliating University from time to time. The institute is constantly upgrading both the software and hardware as per the prescribed norms and academic standards. The institute has student computer ratio of 3:1, 100 Mbps band width of the Internet connection with e-content development facility. The campus is Wi-fi enabled apart from high speed LAN system.

Besides 10% maintenance budget, institute allocates 20-25 % of the annual budget to the physical and academic support facilities.

Student Support and Progression

The quality of the institute is judged by its outcome. The institute provides necessary support to the students for pursuing higher studies and at the same time motivate for entrepreneurship. Students are encouraged to proactively participate in various professional bodies, clubs, sports, co-curricular activities, apart from behavioural and psychological development through Student Activity Cell. The institute works relentlessly to obtain external scholarships in addition management also provides various cash awards and prizes to encourage the students. Parent-Teachers meetings are organized periodically to inform about the progress of their wards apart from regular cell phone messages and alerts.

The institute has an effective Training and Placement Centre (TPC) and it invites eminent resource persons from reputed academic institutions and industries for guest lectures. The TPC conducts the training programs for the students to develop their aptitude, logical skills, communication and offers career guidance along with GRE/TOFEL/GATE etc. The students actively participate in various zonal /state/national level tournaments and won laurels for the institute.

Anti-ragging committee has been formed as per the guidelines of the University Grants Commission. It conducts awareness on consequences of ragging incidences to the senior students with the help of local administrative authorities.

Apart from NSS unit, the Sahaya club also organizes several Social Responsibility initiatives to help orphanages, schools, and old age homes. The alumni association is connected over social media with the institute authorities and even schedules their meetings as required.

Governance, Leadership and Management

With a vision and mission to impart quality technical education, institute has put efforts in the right direction for academic excellence under effective leadership. The institute has decentralized mechanism for effective implementation of decisions taken by its governing body (GB). The institute prepares five year strategic plan keeping in view of the directions and guidelines recommended by premier bodies like NAAC, NBA, UGC and affiliating university. The director (member secretary, GB) along with Deans, HODs and various committees ensures the smooth functioning of the institute.

The institute has hierarchical organizational structure with well defined roles and responsibilities. For effective execution, institute is in process to have paperless environment and has several e-governance initiatives. The various bodies, cells and committees present in the institute work in tandem to achieve the set targets as discussed and decided in the meetings. The institute considers staff welfare as one of its prime objective, thus several welfare policies are operational. Financial support is extended to the staff for their professional development. They are also encouraged for attending and conducting programs. At the same time the annual performance appraisal is conducted without fail. Optimal utilization of its resources has mobilised funds from various organisations, which are internally and externally audited.

Prior to IQAC cell, institute was practising self disciplined model in all facets of its operations, however after IQAC formation many polices are formalised. As a result institute has been certified by premier academic governing bodies.

Institutional Values and Best Practices

The prime role of an education institute is to impart teaching and at the same time inculcate Social responsibility among its faculty and students. The institute has a healthy figure of 60:40 male female staff, promoting the gender equity. To further sensitize the staff members, institute conducts frequently training programs on safety, security and even personal counselling. Institute facilitates sufficient girls' common rooms and female staff rooms.

The entire 10 acres of institute layout provides enough greenery and playgrounds with 70% being open land. The institute has a facility to generate 120 KVA green energy through solar and at the same time more than 25% of lights are with LED. In the path towards "Reduce, Reuse and Recycle", institute has set a solid, liquid and e-waste management system, rain water harvesting is also planned through multiple pits. Institute practices nearly plastic free and paperless office along with pedestrian and bicycle friendly environment.

Institute not only has Code of Conduct hand book for all its stake holders but also believes in promoting human values, national integration, communal harmony and social cohesion. Institute observe most of the National Festivals and anniversaries of great Indian personalities with an active participation from students and staff. Transparency in financial, academic, administrative and auxiliary functions is also maintained by the institute and demonstrates them in the real practices through various bodies. As per Quality Policy, the institute is committed for creating, archiving and disseminating knowledge in Science, Engineering and Technology for the service to the humanity.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	CMR TECHNICAL CAMPUS
Address	Kandlakoya (V), Medchal Road, Hyderabad
City	Hyderabad
State	Telangana
Pin	501401
Website	www.cmrtc.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Director	Avala Raji Reddy	924-7033440	9248727220	040-27755452	director@cmrtc.ac.in
IQAC Coordinator	G. Srikanth	924-7016285	9248727226	08418-200240	hodececmrtes@gmail.com

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	30-06-2009

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Telangana	Jawaharlal Nehru Technological University	[View Document](#)

Details of UGC recognition		
Under Section	**Date**	**View Document**
2f of UGC	03-11-2014	[View Document](#)
12B of UGC	03-11-2014	[View Document](#)

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
No contents				

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

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

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Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Kandlakoya (V), Medchal Road, Hyderabad	Rural	10	33539.6

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	Intermediate	English	120	119
UG	BTech,Mechanical Engineering	48	Intermediate	English	180	123
UG	BTech,Electronics And Communication Engineering	48	Intermediate	English	180	180
UG	BTech,Computer Science And Engineering	48	Intermediate	English	240	240
UG	BTech,Information Technology	48	Intermedaite	English	60	60
PG	Mtech,Civil Engineering	24	B.Tech or B.E. in Civil Engineering	English	24	0
PG	Mtech,Mechanical Engineering	24	B.Tech or B.E. in Mechanical Engineering	English	24	13
PG	Mtech,Electronics And Communication Engineering	24	B.Tech or B.E. in ECE	English	24	0
PG	Mtech,Computer Science And Engineering	24	B.Tech or B.E. in CSE and IT	English	30	6
PG	MBA,Mba	24	UG	English	180	180

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				21				42				122
Recruited	14	7	0	21	30	12	0	42	75	47	0	122
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				120
Recruited	75	45	0	120
Yet to Recruit				0

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Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				60
Recruited	35	25	0	60
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	17	1	0	12	11	0	0	0	0	41
M.Phil.	0	0	0	0	0	0	2	3	0	5
PG	3	0	0	12	7	0	88	29	0	139

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

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	601	18	0	0	619
	Female	249	12	0	0	261
	Others	0	0	0	0	0
PG	Male	95	2	0	0	97
	Female	99	3	0	0	102
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		**Year 1**	**Year 2**	**Year 3**	**Year 4**
SC	Male	81	102	72	58
	Female	41	39	19	24
	Others	0	0	0	0
ST	Male	38	34	48	25
	Female	6	10	8	0
	Others	0	0	0	0
OBC	Male	341	325	248	318
	Female	161	158	101	154
	Others	0	0	0	0
General	Male	215	165	265	228
	Female	136	153	154	144
	Others	0	0	0	0
Others	Male	32	32	23	18
	Female	4	4	4	4
	Others	0	0	0	0
Total		1055	1022	942	973

3. Extended Profile

3.1 Program

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

Response: 381

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

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

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1055	1022	942	973	780

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
648	611	611	630	637

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
443	525	602	513	539

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File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
237	229	220	208	183

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
237	229	220	208	183

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 54

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

2017-18	2016-17	2015-16	2014-15	2013-14
826	826	718	596	429

Number of computers

Response: 1226

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

CMR Technical Campus (CMRTC) continuously evolves strategies to provide quality education to fulfil the aspirations of the students and strive hard to achieve excellence in technical education. The institute has well qualified faculty to impart technical and value-based knowledge in a conducive learning environment.

The curriculum and the syllabus of the UG and PG programs are designed by the affiliating University, JNTUH. The Choice Based Credit System (CBCS) was introduced from the academic year 2016-17. The University is instrumental in deciding the common subjects of first year and the number of credits to be allocated to each semester, the number of open electives and the mandatory courses. The curriculum and teaching methodologies are designed to enhance employability and the spirit of entrepreneurship among the students.

The University brings out reforms in curricular aspects to meet the challenges as posed by industry and society. As part of this the university has introduced courses like Gender Sensitization, Environmental Science, Soft Skills and Personality Development, NSS/NCC, Sports, Entrepreneurship Development, Value Engineering, Essential English and Employability Skills, Business English, Internships and Professional Ethics. Open Elective Courses provided in the curriculum facilitate lateral mobility across the programmes and courses.

For implementing effective delivery of the curriculum, the following processes are adopted:

- As per the university prescribed curriculum, the subjects are allotted to the faculty based on their experience and expertise.
- The concerned faculty prepares lecture schedule, tutorial sheets, assignments and Question bank for objective as well as subjective, before commencement of the Class work.
- The lectures are delivered with help of ICT tools and teaching aids.
- The syllabus coverage is reviewed and assessed on monthly basis to ensure coverage of syllabus in time.
- Most of the laboratories are designed to promote conduction of experiments individually.
- Tutorial classes are conducted, especially in mathematics and problem-orient subjects/courses.
- Regular assignments are given to the students on the extended topics of the syllabus covered in the class.
- Additionally remedial classes are engaged for the slow learners.
- The course file prepared by the individual faculty demonstrates the documentation process of effective deliverance of curriculum.

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

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

Response: 26

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	8	4	4	3

File Description	Document
Minutes of relevant Academic Council/BOS meetings	[View Document](#)
Details of the certificate/Diploma programs	[View Document](#)
Any additional information	[View Document](#)

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

Response: 13.93

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
21	5	3	1	0

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

1.2 Academic Flexibility

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

Response: 1.05

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

Response: 4

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document

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

Response: 100

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

Response: 10

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document

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

Response: 68.37

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

2017-18	2016-17	2015-16	2014-15	2013-14
871	821	740	499	383

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

1.3 Curriculum Enrichment

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

Response:

GENDER SENSITIZATION:

Equal opportunities are given to both the genders in terms of admission, employment, training programs, sports and other activities thus crubbing any gender related issues. College supports women faculty and students to become members in forums and encourages them to participate in events focusing on women empowerment and promoting leadership qualities. Girls and boys participate in various co-curricular activities such as Paper Presentations, organization of paper contests, group discussions and technical quiz Programs. Both boys and girls are made members of various clubs associated with academic, co-curricular and extracurricular activities. Gender sensitization seminars are conducted by Women Empowerment Cell for both faculty and students on topics such as 'Eve teasing', Nirbhaya Laws etc., which not only emphasize the importance of virtue to be adhered to in life, but also to respect women and aims to enable their comfort in the work place and ensuring professional growth.

ENVIRONMENT SUSTAINABILITY:

Students have a compulsory course on Environmental Science and Technology. Topics related to these issues are taken up for quiz and debates during the National Science Day, Earth Day, and Independence Day celebrations. Students are also encouraged to participate in intercollegiate activities on climate change. They are taken for industrial visits to see effluent and water treatment plants and places which educates them on environmental issues.

Awareness programs are also initiated by NSS which extensively carry out activities for environmental protection and ecological preservation. Our institution takes part in programs like **Swachh Bharat** and **Haritha Haram**.

HUMAN VALUES AND PROFESSIONAL ETHICS:

The curriculum includes seminars on professional ethics and human values. Special lectures are arranged to create awareness on these issues by the Lexis Club of the College. Eminent Personnel from Chinmayananda Mission and Rama Krishna Mission are invited every week to educate the students on moral and ethical values. Employability and life skills Training programs like Personality Development, Intra and Interpersonal Communication Skills are also conducted.

BETTER CAREER PATHS:

CAREER GUIDANCE - Training and Placement Cell, Library resources, Educational fairs, Community orientation, NSS and guidance by respective departments.

The departments are very keen in providing socially relevant and job-oriented courses/contents. They are given due importance keeping in view the goals, objectives, vision and mission of the institution and also consedering the latest trends, emerging areas, industrial needs and global competition. In addition to the engineering discipline curriculum, the socially relevant courses like Professional Ethics and Value Engineering, Environmental Science, Principles of Management, Business English, Soft Skills and Personality Development, Logical Reasoning and Quantitative Aptitude (CRT), Entrepreneurship Development, Managerial Economics and Financial Analysis, Fundamentals of Budget, Project Management, Essential English & Employability Skills, and Total Quality Management have been included to enhance the interdisciplinary skills, societal awareness and job skills of students.

The enrichment courses provide an opportunity for the intellectually curious students to develop their knowledge at a higher level. Some enrichment courses like technical presentation and aptitude are introduced as a step to improve aptitude and communication skills.

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

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

Response: 54

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

Response: 54

File Description	Document
Details of the value-added courses imparting transferable and life skills	[View Document](#)
Brochure or any other document relating to value added courses.	[View Document](#)
Any additional information	[View Document](#)

1.3.3 Percentage of students undertaking field projects / internships

Response: 60.95

1.3.3.1 Number of students undertaking field projects or internships

Response: 643

File Description	Document
List of students enrolled	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

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

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	[View Document](#)
URL for stakeholder feedback report	[View Document](#)

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

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

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

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

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

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

Response: 1.23

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

2017-18	2016-17	2015-16	2014-15	2013-14
22	13	10	12	4

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

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 84.79

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

2017-18	2016-17	2015-16	2014-15	2013-14
914	891	869	925	758

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

2017-18	2016-17	2015-16	2014-15	2013-14
1062	1002	1002	1032	1044

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

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 89.67

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

2017-18	2016-17	2015-16	2014-15	2013-14
437	428	425	313	364

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

2.2 Catering to Student Diversity

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

Response:

CMRTC practices well defined parameters/mechanism for continuous monitoring and evaluation of students. The institute considers three parameters for identifying level of students as slow learners & advanced learners.

The parameters are: 1) Performance at Intermediate Level 2) EAMCET Ranking and 3) Performance at internal test level. The results of the examining parameters tend to show that in every 10 students, 4 to 5 are found to be slow learners. The performance of students after assessment is apprised to the Head of the department, who in turn discusses the same in Department Advisory Committee and plans the strategy for improving the performance of slow learners.

Few Strategies adopted for facilitating Slow Learners:

- The respective mentor of student assesses the nature of their problem and motivates them in appropriate manner to achieve their academic goals.
- Remedial classes are planned and the schedule is circulated among the students in advance for conduction of the same.
- Extra classes are organized to clarify doubts and re-explaining of critical topics for improving performance.
- They are provided with the Question Bank, Tutorial questions, Course material and Model question papers and e-book.
- Parents are informed about their ward's performance in different areas like academics, co-

curricular and extracurricular.

Few Strategies adopted for facilitating Quick Learners:

- Quick learners are identified through their performance in examinations, interaction in classroom and laboratory, their fundamental knowledge, concept understanding and articulation abilities etc. CMRTC strongly promotes independent learning that contributes to their academic and personal growth.
- Advanced learners engage slow learners hence creating peer learning atmosphere. They are involved in Department Association Events as members and are assigned to conduct events under various Clubs.
- Special Programs for advances learners include Advance Training Lab where students of II, III and IV years are given training on latest technologies which are not covered in their regular academics.

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

2.2.2 Student - Full time teacher ratio

Response: 4.45

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

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

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

2.3 Teaching- Learning Process

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

Response:

CMR Technical Campus believes in the adoption of student centric methods to enhance student involvement as a part of participative learning and problem solving methodology. We follow namely role

plays, discussions, debates, laboratory experimental learning, mini projects and case studies.

Association Hours:

Every department schedules two hours per week in time table to conduct various activities to encourage participative learning and problem solving methodologies.

Discussions:

The students are promoted for the discussions in many of the subjects, Technical topics, which allow students to think broadly and come up with their opinions & suggestions in finding better solutions. The discussions are basically in soft skills, managerial communications, business adoptions and many more.

Debates:

Debates are conducted on the current affairs, technical know-how's, and other educational topics frequently for bringing out the hidden talent within self. Thus the student explores various knowledge sources to strengthen himself. The mode of debate itself puts the student in competitive spirit.

Laboratory experiential learning:

Technical education is always justified with the help of practical knowledge. The students are exposed to various laboratories like physics, chemistry and English right from the first year only. Later from second year onwards, the students are made to work in their respective specialization, wherein knowledge in their domain is imparted.

In addition to the regular academic laboratories, students undergo an additional advanced training laboratory in second and third year to bridge the gap between industry and academia.

Mini and Major Project:

To imbibe technical skills and innovative thoughts, students are permitted to carry out industry oriented mini projects during summer breaks. In addition to this they also do major project work during their final year. During this process, they experience the difference between theory and practise.

Campus Recruitment Training (CRT):

Students are trained in different modules from second year onwards as per the industry need. Initially the training focuses on the Aptitude, Verbal, Quantitative Analysis and soft skill. Later students are trained extensively for technical skills. Relevant Seminars/ Pre-placement talks are conducted by industry personal, presenting the current industry trends.

Case studies:

In certain subjects, case studies play an important role in making students understand the relevance of principles and theorems. Success and failure stories of noted organisations are discussed as part of case study. This enables students to enhance their managerial skills in successfully running an organisation.

Industrial Visits :

All the departments regularly arrange subject centric industrial visits to bridge the gap between the theory studied in the class and the real time application as witnessed by students in the industry. Further students are allowed to take up their mini and major project work in these industries upon their interest.

Clubs

Various clubs are in place to organize technical and cultural activities in the institute. Each club is managed by executive committee comprising of students from various branches and years. This brings out the leadership skills and team work amongst the student community.

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

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

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 237

File Description	Document
List of teachers (using ICT for teaching)	[View Document](#)
Any additional information	[View Document](#)
Provide link for webpage describing the " LMS/ Academic management system"	[View Document](#)

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 4.45

2.3.3.1 Number of mentors

Response: 237

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

2.3.4 Innovation and creativity in teaching-learning

Response:

CMRTC has proactively engaged in envisaging innovative practices into the teaching Learning process. The various methods adopted include seminars, guest lectures, workshops, Industrial visits and effective utilization of e- resources.

Seminars:

Seminars are conducted on regular basis to enhance the subjective knowledge on the topics related to the curriculum. The students are provoked to think innovatively and come up with novel ideas which further can be realized as mini and major projects.

ICT Tools:

Faculties make use of power point presentations and video lectures on technical topics as per the syllabi, as a review at the end of each chapter. This aids slow learners in understanding the topics in a better manner.

Tests:

Every faculty conducts a snap test at the end of each unit. Students scoring less than 60% are regularly monitored. Results of these tests are considered as a grading factor for implementing methods to improve the performance in internal and external examinations. In addition assignments are also given to the students by the concern faculty as per the subject need.

Industrial Visits:

It is a regular practice to organize industrial visits for the students to have practical exposure with respect to subjects taught in the class room. As students come across real time working environment, it provides an opportunity to simulate the principles learned. Some of the interested students do carry mini and major projects or internships in their pre-final and final year. The concerned faculty identifies the potential industry and plans the visit accordingly.

E- Resources:

To promote a continuous learning atmosphere, Central library is equipped with 33600+ volumes of 3600+ titles and 130+ plus National & International print Journals, 17 Magazines, eBooks, e-Journals, Subject PPT's, Subject Animations, Project Reports, Tutorials and NPTEL Video Lessons related to engineering and allied subjects. The library books can be easily accessed through the use of Online Public Access Catalogue (OPAC) and is fully automated with the Integrated Library Management Software "NewgenLib Commercial Release, Version – Helium 3.1.3".

Outcome base learning:

CMRTC ensures achievement of learning outcomes through:

- Every student's outcome is identified through the Course Outcomes and mapped with Program

Outcomes and Program Specific Outcome.
* Continuous evaluation in both theory and lab subjects.
* Feedback taken by the faculty members at the end of the course on CO's and the Assessment Committee analyze whether the corresponding outcomes are as per prescribed CO's
* Outgoing/passed students also give the feedback of the Program Outcomes while leaving the institution.

Guest Lecture:

Each Department is provided with two hours per week in the time table towards association activity . Association hours are productively utilized by inviting subject matter experts from industry and other premier institutions to share their expertise on their related subjects.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

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

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document

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

Response: 15.74

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

2017-18	2016-17	2015-16	2014-15	2013-14
42	35	33	32	28

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 7.4

2.4.3.1 Total experience of full-time teachers

Response: 1753

File Description	Document
Any additional information	View Document

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

Response: 0

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

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

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

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

Response: 26.52

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

2017-18	2016-17	2015-16	2014-15	2013-14
89	86	72	47	4

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

2.5 Evaluation Process and Reforms

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

Response:

CMRTC follows guidelines of Jawaharlal Nehru Technological University, Hyderabad for internal evaluation and assessment procedure.

- For undergraduate programs, the institute conducts two mid-exams of 25 marks each, comprising ten marks for descriptive, ten marks for objective and five marks for assignment. The average marks of both examinations are considered as final mid-marks. End semester examination is for 75 marks which is conducted by the university.
- For the post-graduate program, the institute conducts two mid-exams of 25 marks each as per university norms, and the end semester examination is for 75 marks which are conducted by the university.
- After completion of the internal examination, the faculty evaluates the answer scripts and distribute to the students for doubt clarifications or re-correction. The faculty submits the re-corrected scripts to the examination branch and marks are displayed on the notice board and in CMS. The Director conducts meeting's with HODs to understand students' performance and necessary action plan for further improvement.
- For laboratory evaluation for under graduate the institution conducts two lab internals for 25 marks each. It is divided into ten marks for the written exam, and 15 marks are allotted for day-to-day performance in the laboratory. External lab-examination is conducted for 50 marks as per R-15 regulation and 75 marks as per R-16 regulation.
- Leniency is shown on assignment exams for the absentees on the following cases:- meritorious student, participating in National and State level sports and medical grounds so that their percentage is not hampered.
- Project Work: Major project consists of 200 marks, of which the continuous internal assessment carry 40 marks while the end semester examination will carry 160 marks. Mini projects are mostly carried out at industries. Mini project carries 50 marks. HOD shall constitute a project review committee (PRC) consisting of three to four senior faculty members. One of the senior faculty member of PRC is designated as Project Coordinator.
- Students' performance is also evaluated based on the following parameters: communication skills, use of modern tools (NPTEL, M-Tutor, V-labs), critical thinking skills, problem-solving skills, ability to work in teams, and leadership qualities.

Strategies adopted for student improvement:

Remedial classes are organized to clarify doubts, review of critical topics for improved performance. Poor performance due to frequent absenteeism is dealt by sending SMS and registered letters to parents of such students. Appropriate counseling with additional teaching eventually helps students to attend classes regularly.

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

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

Response:

Internal assessment in CMRTC is very much transparent that every student is aware of the standard internal assessment process of both theory & practical subjects. The institute follows the regulations set by Jawaharlal Nehru Technological University, Hyderabad (JNTUH).

At the beginning of the semester the question bank is given to the exam section, consisting of Long Answer Questions (LAQ) and Short Answer Question (SAQ), out of which 10% of questions will appear in the Mid-Term Exam. The questions for the exam are selected from the Question bank by the exam section and thus the question paper is prepared a day before the commencement of Exam, maintaining the confidentiality. The mid-term marks are divided as 20 marks for descriptive and objective examination and 5 marks Assignment test. The assignment is conducted periodically as planned by the respective HODs.

After every Mid-Term examination, the corrected answer scripts are distributed to students to know their performance and the same is discussed in the class rooms. All the subjects wise Marks are displayed in the notice boards and in the website. Before uploading the marks in the university site, the consolidated mark sheet is circulated among students for their clarifications if any.

With respect to laboratory, marks obtained for individual experiments are awarded in their records and the same is entered in the faculty register also. Once all the experimentations are completed, the average marks obtained are calculated and the same is uploaded to the university and even displayed in the notice board.

The faculty mentors analyse the results of their respective students and summon the low performing students to understand the reasons behind the poor performance and accordingly they are motivated for improvement in upcoming examination to avoid failure in the subject. In laboratory, slow learners are permitted to improvise their marks by redoing the experiment if they have scored low.

The institute prepares an Academic Calendar in line with university calendar prior to the commencement of the academic year in consultation with the Heads of the Departments. Then the Institute organizes orientation programs to the students to make them acquainted with the rules and regulations of the affiliating university, examinations, evaluation process, Extra-curricular activities etc. Similarly every

department organizes a semester orientation program with parents in the first week after starting a new semester. Head of the departments communicate about the labs & subjects of the semester to the students, parents and other institutional members in the semester Orientation Programs. Institute handbooks are handed over to the students after the orientation program and college website link is also provided simultaneously. For University External examination, University will allot the Exam center for the student in different colleges.

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

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

Response:

CMRTC has the redressal mechanism for grievances regarding examination marks. The cell consists of The Director, Head of Departments (HoDs), and In-charge of Examination. Students can apply for any issues in the evaluation of their answer scripts. It conducts a meeting to hear students' concern and takes an appropriate decision which is binding on all.

The redressal of grievances regarding evaluation in both internal assessment and university examination is through the following process.

At institute level:

The teacher distributes evaluated answer scripts to students, and any clarifications or grievances are addressed by the teacher. The internal marks are then displayed on notice board. If any discrepancy is noticed, the concerned teacher will resolve the discrepancy, and the necessary corrections will be made within 2-3 working days. If a student is not satisfied with the marks awarded even after resolved by the teacher, they may represent the same to The Director through the HOD concerned. All such representations are taken positively and are reassessed by another teacher if necessary.

Parents are informed about their ward's performance through SMS and E-mail through the CMS system. Students are counselled by the faculty mentor, and remedial classes are conducted for students who have failed in the examinations. Students who are absent for internal exams due to genuine reason can apply for the computer-based test conducted by the university.

At university level:

Students can express grievances by applying for the following evaluation procedure:

Re-counting:

If the students are not satisfied with the marks awarded, they can apply for re-counting within a week from the declaration of results through the examination branch at the institution. The results of re-counting will be announced as per the university norms.

Re-evaluation:

Students can apply for re-evaluation of their answer scripts within a week from the declaration of results if they are not satisfied with their results. The results of re-evaluation will be announced as per the university norms.

Challenge Evaluation:

If the re-counting/re-evaluation results are not satisfactory, a student can apply for challenge evaluation within a week after the announcement of the results. The evaluation process is carried out in the presence of student by two subject experts; one represents from the institution and other from the university.

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

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

Response:

CMR Technical Campus is affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH) .The University releases the Academic calendar in advance before the commencement of the academic year. The academic calendar breaks down the academic year into two semesters. It provides the information of the courses for the semester, dates of commencement of class work, syllabus completion, examinations, list of holidays, and the total number of working days.

The faculty members of the concerned department gather the lists of courses for the coming semester, and the HOD finalizes the allocation of courses based on the faculty's choice and area of specialization. Faculty members then prepare the lesson plan before the commencement of semester, indicating the topics to be covered, teaching methodologies being applied, and assignments given to students and the number of lectures.

A course file for each course is prepared by the faculty, which includes course objectives, outcomes, schedule, references, study material, and questions from previous examinations papers. Students will be provided with the course file in the first week of the semester to provide them awareness about the subject and plan for the semester.

The evaluation process for each subject is duly reviewed by a senior faculty in the department, approved by the HOD, and then made available to the students. Timetable in-charge of each department prepares the timetable as per the guidelines given by the university and gets it approved by Program Assessment

committee (PAC). The time-table is then uploaded in CMS system and displayed on the respective department notice boards.

The performance of the student is assessed on a continuous basis by conducting two mid-exams per semester based on the university norms. The average marks of both mid-terms are taken into consideration. In addition to the tests, assignments, mini-projects, and quizzes are also part of CIE. The evaluated answer scripts are shown to the students to clarify their doubts about the evaluation process.

The academic schedule prescribed is strictly adhered by all departments. CMRTC maintains a high standard through CIE and ensures end semester and practical examinations are conducted jointly by the concerned teacher and an external examiner appointed by the university. Schedule of the end-semester examinations and rules and regulations about evaluation of students under various courses are also included in the academic calendar.

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

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Process for establishing PEOs

Input from students, employers, alumni, faculty, and the Departmental advisory board have been used to validate the definition of our PEOs, as well as to assess their achievement. PEOs are reviewed periodically to ensure that they continue to reflect current industrial trends. The relevant documents are available in the department.

- Obtain suggestive Program Educational Objectives from the employers
- Obtain suggestive Program Educational Objectives from the alumni
- Obtain suggestive Program Educational Objectives from the faculty
- Deliberations and finalization of Program Educational Objectives by the Program Assessment Committee and Department Advisory Committee
- Deliberations Program Educational Objectives by the College Academic Committee

Step No	Process	
Step 1	Vision and Mission of the department are taken as a basis to interact with various stake holders.	
Step 2	Program Coordinator consults the key constituents and collects their views and submits the Assessment Committee.	
Step 3	Program Assessment Committee summarizes the collected views and expresses its opinion	

	forwards the same to Department Advisory Board.
Step4	Department Advisory Committee deliberates on the views expressed by the Program Assessme recommend to college academic Committee which formulate and accept PEOs.

The PEOs are published and disseminated

PEOs are the basic inputs to our program structure that describe the accomplishments that our graduates are expected to attain within three to five years after graduation.

  The PEOs are published at

- Institute Website: www.cmrtc.ac.in
- Department News letter
- Department Library
- Prominent places of the department

The PEOs are disseminated to

- Students
- Parents
- Alumni
- Faculty
- Industry

Processes employed for defining of POs

The department established the Program Outcomes through Vision and Mission of the Institution Department and established PEOs. In consultation process involving the stakeholders of the department, the future scope of the department and mainly the Graduate Attributes.

Step 1	Department PEOs serve as one of the major input to define POs.
Step 2	Graduate attributes also serve as major input to define program outcomes.
Step 3	Another component of input to define POs is input from stakeholders.
Step 4	Inputs from various sources: Department PEO: Provides input with respect to career growth and professional accomplishment Graduate Attributes: Provide basic indicators useful for defining POs Stakeholders: provides input with respect to industry needs, etc.

Step 5	All the inputs needed for POs establishment are collected by Program Coordinator, summarized by Program Assessment Committee and finally views are accepted by Department Advisory Commttee

The POs are published and disseminated

POs are published through

- College Website: www.cmrtc.ac.in
- Display at prominent places in the department
- Notify to the students in the classrooms
- Publishing in record books

POs are disseminated to

- Students
- Parents
- Alumni
- Faculty
- Industry

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

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

Response:

In order to assess the attainment of PEOs, they are subdivided as follows

PEO1: Progress in **professional career** and **higher education** in Engineering and allied fields

PSO1. 1.   Placement record

PSO1. 2.   Performance in the Program

PSO1. 3.   Higher Education

PSO1. 4.   Alumni Survey

PSO1. 5.   Employer survey

PEO2 **:** Demonstrate **self learning skills**, **team spirit** and **professional ethics** for beneficial development of the society.

PSO 2. 1: Alumni Survey

PSO 2. 2: Employer Survey

PEO 3 **:** Solve real life **problems of Engineering** and allied fields resulting in significant societal benefit

PSO3. 1. Alumni Survey

PSO3. 2. Employer Survey

The tools and processes used in assessment of the attainment of PSOs is shown below

Assessment of PEOs of the program

PSO	Parameter	Assessment Tool	Data Collection	Faculty Responsible	Weightage
PSO 1	**Supplementary evidence** **(40%)**	**PSO 1. 1:** Placement record	Once in year	Programme Coordinator	15%
		PSO 1. 2: Performance in the program	Once in year	Programme Coordinator	25%
	Confirmed evidence **(60%)**	**PSO1. 3:** Higher Education	After 2 years of graduation	Programme Coordinator	10%
		PSO 1. 4: Alumni survey	After 2 years of graduation	Programme Coordinator	40%
		PSO 1. 5: Employer survey	After 2 years of graduation	Programme Coordinator	10%
PSO 2	**Confirmed evidence** **(100%)**	**PSO 2. 1:** Alumni survey	After 2 years of graduation	Programme Coordinator	85%
		PSO 2. 2: Employer survey	After 2 years of graduation	Programme Coordinator	15%
PSO 3	**Confirmed evidence** **(100%)**	**PSO 3. 1:** Alumni Survey	After 2 years of graduation	Programme Coordinator	85%
		PSO 3. 2: Employer survey	After 2 years of graduation	Programme Coordinator	15%

Program Outcome Assessment Process

The step by step process for assessing program outcomes is shown below

Step 1	The Program coordinator analyses each outcome into elements (different abilities specified in the outcome) and a set of attributes are defined for each element (actions that explicitly demonstrate mastery of the abilities specified). In addition, generate well designed surveys to assess the outcome.
Step 2	For each outcome define performance indicators (Assessment criteria) and their targets.
Step 3	Identify/select courses that address the outcome (each course contributes to at least one of the outcomes). Hence, each outcome is assessed in several courses to ensure that students acquire an appropriate level in terms of knowledge/skills of an outcome.
Step 4	The module coordinators collect the qualitative and quantitative data and were used for outcome assessment in a continual process.
Step 5	The Program Assessment Committee analyzes the collected data. If the assessed data meets the performance targets which are specified in step 2, the outcome is attained. Otherwise, consider step6.
Step 6	The Department Advisory Committee recommends content delivery methods/course outcomes/ curriculum improvements as needed.

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

2.6.3 Average pass percentage of Students

Response: 60.69

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

Response: 548

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

Response: 903

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

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.43

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 234.12

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

2017-18	2016-17	2015-16	2014-15	2013-14
122.45	69.35	23.18	14.22	4.92

File Description	Document
List of project and grant details	[View Document](#)
e-copies of the grant award letters for research projects sponsored by non-government	[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 4.22

3.1.2.1 Number of teachers recognised as research guides

Response: 10

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

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

Response: 0.98

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

Response: 42

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

Response: 215

File Description	Document
Supporting document from Funding Agency	[View Document](#)
Supporting document from Funding Agency	[View Document](#)
Funding agency website URL	[View Document](#)

3.2 Innovation Ecosystem

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

Response:

CMRTC has an ecosystem for innovation including incubation centre and other initiatives for creation and transfer of knowledge. Faculty members are encouraged to take up research activities utilizing the existing facilities. CMRTC has a dedicated R&D Centre headed by Dean-R&D. A dedicated Research Centre is the backbone for productive research outcome. CMR Technical Campus is no exception in establishing Centres in allied areas of current technologies. To match the requirement of industry, the institute has initiated several centres in every department.

Objectives and Initiates of R&D Centre

- Explore research culture of societal relevance among faculty members and students.
- Motivating faculty to undertake major and minor research projects from various funding agencies.
- Creating awareness towards Intellectual Property Rights (IPR).
- Enhance interactions between researchers to cater Interdisciplinary developments.
- Guidance to publish research articles in reputed journals.

- Encourage faculty members to pursue Ph.D.
- Providing incentives for findings & publications in reputed journals/conferences and also for obtaining research projects from the government/ non-government agencies.
- Motivate students to participate in research related activities.

Centre for Additive manufacturing and product design **(CAPD)** is established for rapid prototyping, designing products and manufacturing systems that are functional, aesthetic, usable and sustainable. Centre for Structural Engineering **(CSE)** and Centre for geotechnical engineering **(CGE)** are initiated to strengthen research activities among the faculty and student community.

Centre for VLSI & Embedded system design **(CVESD)** provides practical skills to students and train them for present needs of VLSI and Embedded Industry. Centre for Advanced Communication Systems **(CACS)** is a centre in ECE Department which targets the needs of researchers and industry in a fast-paced and technical communications sector, which continues to bring many of the advances that make ultra-fast communications possible. Centre for Signal and Image Processing **(CSIP)** provides a board area of research problems to work for UG, PG students and faculty members to gain potential in the domain of

Signal Image Video and Antenna and also provide assistance for the Research work.

Centre for Mobile and Web Technologies **(CMWT)** is an emerging disruptive phenomenon of the present trend for implementing real time ideas with latest technologies like Android, and IOS. Centre for Internet of Things **(CIOT)** is established to cater to the need of academic projects but also used for implementing real time ideas with sensors, micro-controllers, communication protocols and cloud technologies. Centre for Data Analytics **(CDA)** is a facility that centralizes institute Research and Development operations, stores, manages and disseminates its data, projects and training. It is created to Provide Domain knowledge with subject experts from industry and make ready for the role of Business Analyst and Business Intelligence. Centre for Artificial Intelligence and Deep Learning **(CAIDL)** is established to focus on current emerging technologies in the field of AI and Deep Learning.

The established centres organise FDPs, Workshops and Conferences in their domain and also work in the direction of generating funds and consultancy.

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

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

Response: 51

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

2017-18	2016-17	2015-16	2014-15	2013-14
11	13	12	09	06

File Description	Document
Report of the event	[View Document](#)
List of workshops/seminars during the last 5 years	[View Document](#)

3.3 Research Publications and Awards

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

Response: Yes

File Description	Document
Institutional data in prescribed format	
Any additional information	

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

Response: Yes

File Description	Document
e- copies of the letters of awards	

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 1.33

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 04

3.3.3.2 Number of teachers recognized as guides during the last five years

Response: 3

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	
Any additional information	

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

Response: 1.61

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

2017-18	2016-17	2015-16	2014-15	2013-14
87	89	68	47	55

File Description	Document
List of research papers by title, author, department, name and year of publication	
Any additional information	

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

Response: 0.78

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	35	84	14	28

File Description	Document
List books and chapters in edited volumes / books published	
Any additional information	

3.4 Extension Activities

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

Response:

To impart and sensitize students on social issues and sensitivity towards social responsibility from theoretical foundation to practical, CMRTC created two platforms named, Social Welfare Community - Sahaya and NSS unit work together addressing issues related to neighbourhood community. Faculty coordinators and student members involve themselves in activities throughout the year. Sahaya & NSS act as a unique and robust mentoring unit through which various social activities are observed.

- CMRTC conducts regular seminars on Anti-ragging in collaboration with local police authorities to make the campus a ragging free zone.
- Organizes career guidance programmes at nearby villages thus create awareness among school going students for choosing their career-oriented courses after completion of schooling.
- Developing leadership qualities among the students and unemployed youth through Health awareness camp, Blood Donation Camps and literary programs.

- It Organizes awareness programmes on Road safety by distributing brochures on wearing helmet, seatbelts, drunk and drive, minor driving, following safety rules etc.

- Create awareness of seasonal diseases by printing and distributing relevant pamphlets among the public.
- Donates fruits and bread to the orphanages on the occasion of Mother Teresa birth anniversary.
- Supported victims of Hud-Hud cyclone by providing clothes and other accessories.
- Visited a few villages in and around the Medchal dist to educate the people for better livelihood in many aspects.
- Conducted awareness programme in neighbourhood colleges on voter enrolment.
- **BetiBachao, BetiPadhao** - a social campaign of the Sahaya Club / NSS Unit that aims to generate awareness and improve the efficiency of welfare services intended for girls.
- **Digital literacy** is the set of knowledge and skills required for full participation in a technologically based society. Through digital literacy, efficient use of digital devices such as smart phones, tablets, laptops and desktop PCs can be made for purposes of communication, expression, collaboration and advocacy. To meet these objectives, our Innovative club has taken an initiation to create awareness about digital literacy.
- Sahaya club has conducted awareness campaign about effective use of water resources and rejuvenating old tanks and channels as a part of *Mission Kakatiya- Telangana Government Program.*
- NSS unit organised awareness programme in neighbouring villages on the habitual use of or dependence on harmful substances like liquor/alcoholic drinks, tobacco, bidis/cigarettes, drugs.
- NSS unit actively enrolled eligible voters' in nearby villages as part of election commission programme.
- NSS unit has created awareness programme in industrial areas, hotels, shops and news agencies about child labour and the necessity of their education.
- Against dowry system, an awareness camp has been conducted in Kucharam village, Medak dist. to get rid of a financial burden on bride's family.
- Sahaya club has conducted a campaign to *stop farmer suicides* in neighbouring villages of Medchal dist to strengthen the farmers emotionally.

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

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

Response: 0

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

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

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

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

Response: 93

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

2017-18	2016-17	2015-16	2014-15	2013-14
14	25	19	18	17

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 61.73

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

2017-18	2016-17	2015-16	2014-15	2013-14
661	630	585	335	685

File Description	Document
Report of the event	<u>View Document</u>
Average percentage of students participating in extension activities with Govt or NGO etc	<u>View Document</u>
Any additional information	<u>View Document</u>

3.5 Collaboration

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

Response: 262

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

2017-18	2016-17	2015-16	2014-15	2013-14
122	40	12	37	51

File Description	Document
Number of Collaborative activities for research, faculty etc	<u>View Document</u>
Copies of collaboration	<u>View Document</u>

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

Response: 51

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
5	9	16	13	8

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	[View Document](#)
Details of functional MoUs with institutions of national, international importance,other universities etc during the last five years	[View Document](#)
Any additional information	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

CMRTC is located at Kandlakoya (V), Medchal (Mandal & District) on Hyderabad - Nizamabad - Nagpur highway encompassing a sprawling area of 10 acres with a built-up area of about 33539.6 Sq. m.

- All the classrooms in the departments are provided with necessary provisions to enable the use of LCD projector and Laptop/computer for teaching -learning process.
- The institute has 8 seminar halls with LCD projectors, computers with internet connectivity and public address system. These seminar halls are utilized for co-curricular activities such as guest lectures, workshops and seminars.
- The central library possesses Digital Library with 18 computers to access the e-learning resources.
- All the Computers are connected through LAN to facilitate the conduct of on-line tests.
- Video Conferencing / Skype facilities are also available for interaction with experts from remote locations.
- Rack Server consisting of 12 servers with L1 Architecture is installed with necessary supporting software to cater the academic needs and also for conduction of online tests.
- A 1200 seating capacity auditorium with state of art facility to conduct joint sessions for students.

The physical infrastructure includes classrooms, laboratories, seminar halls, departmental libraries, staff rooms, and central facilities like computer centre, central library, dispensary, gymnasium, transportation office, administrative office and they have been planned and constructed as per AICTE norms.

The college has the following supplementary facilities in the campus

- ATM
- Canteen
- Stationery Store
- Medical Facility (Doctor service, 24hrs ambulance facility)
- Sprawling playground to conduct sports and games events
- Postal / Courier

The Institution has policies for creation and enhancement of infrastructure in order to promote a good teaching-learning environment. The need for infrastructure is analyzed regularly, based on the strength of students and requirement of the departments.

Each department block is provided with an Office room and a common room with an Office Assistant and a peon. Other provisions include notice boards, separate rest rooms for female and male students.

The Institute is committed to provide any specific services for the disabled students whenever required. The Institute has two hostels one for boys and one for girls with internet facility and other modern facilities.

First-aid boxes are provided in different locations inside the campus including departments, laboratories and hostels and they are periodically refilled.

The institute has taken all aspects of safety and security measures by appointing security guards for the entire campus, Installing fire extinguishers, Protection against Earth Leakage (using Circuit Breakers), Installation of exhaust fans at specified locations, Provision for an outlet of fumes and gases from the laboratories, supply of RO Mineral Water and uninterrupted power supply through Generators and UPS back up.

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

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

Response:

The Department of Physical Education (DPE) of CMRTC has been putting in its best efforts in imbibing knowledge and imparting skills to students and faculty in various sports and games, developing them to higher levels of expertise. Sports club of CMRTC has successfully induced the sporting culture among the students and faculty, which is evident through the laurels achieved. The DPE comprises of 2 Physical Directors and supporting staff.

Prominent Features

- Qualified Physical Directors and Supporting staff.
- Vast playing area of 10,000 Sq m.
- Separate play fields for boys and girls.
- Sponsorships to elite players.
- Exposure of students to state and national-level tournaments.
- Individual attention to every player through mentoring.
- Indoor sports complex

Infrastructure and Facilities

The Institute is enriched with play area which includes:

- Athletic Track
- Basketball Court
- Cricket Ground
- Football Field
- Handball Court
- Kabaddi Court

- Kho- Kho Court
- Throwball Court
- Tennikoit Court
- Volleyball Courts
- Indoor Badminton Courts
- Hockey Ground

Cultural Activities

CMRTC strongly believes that Cultural activities are an integral part of enjoyment and entertainment, as a means of creative expression, for personal growth and the pursuit of excellence, to learn new skills, to meet new people, and to celebrate cultural traditions. The institute has established a Student Apex body named "Student Activity Cell" (SAC) under which various clubs function. The "Aakriti" Cultural Club of the institution aims at identifying various hidden talents of the students and helps to bring out their talents. It encourages and brings out the artistic capabilities of students in the field of Music, Dance, Drama, Visual Arts and other cultural activities.

To promote and motivate the students towards extra-curricular activities, the institute has started various clubs like: Aakriti- The cultural club, Lexis-The Literary club, Film & Photography club which conducts selections and auditions for students. An intra-collegiate cultural competition is regularly organized by the cultural club in which more than 800 students participate. The other events which are organized by the club include Rangoli, Mehandi, and Cartooning; Paint the face, Art from waste, Dance, Orchestra, Elocution and Skit. The institute has a Club House and 2 Mini Halls with a seating capacity of 250 each, a Auditorium with seating capacity of 1200 for organizing cultural programmes. Besides, major cultural events are organized in the Open Air Theatre which has a seating capacity of 5000.

The cultural club actively involves in organising events like traditional day, annual day techno carnival, teachers day, and Fresher's day. And it also promotes participation of student in inter collegiate competitions.

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

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

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 54

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

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

Response: 21.78

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

2017-18	2016-17	2015-16	2014-15	2013-14
150	215.5	239.2	103.5	59.98

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

CMR Technical Campus established a spacious Central Library with an area of **968 Sq. m**. in a pleasant environment. It started its functioning with a vision to serve the information needs of its users and to promote a continuous learning atmosphere with holding various Text Books, Reference Books, eBooks, Journals, Magazines, e-Journals, Subject PPT's, Subject Animations, Project Reports, Tutorials and NPTEL Video Lessons related to engineering and allied subjects. Central Library provides abundant information and intellectual requirements to the students and faculty with a user friendly approach. It offers a fully integrated and peaceful environment for conducting academic study.

The Central Library, the college's prime knowledge source, has an impressive collection of **33600+ volumes of 3600+ titles** and **130+ plus National & International print Journals**, **17 Magazines and 7 News papers** to cater to the Engineering and Management streams. The library books can be easily accessed through the use of Online Public Access Catalogue (OPAC) and is **fully automated with the**

Integrated Library Management Software "NewgenLib Commercial Release, Version – Helium 3.1.3".

Salient features and services of the Central Library:

- Circulation Section, Reference Section, Periodicals Section, Processing Section, Reprography Section, New Arrivals Display, Books Stack Area, Reading Area and Digital Library.
- Well designed infrastructure with a reading capacity for 200 users.
- Wi-Fi enabled.
- Online Public Access Catalogue (OPAC)
- Document Delivery Service (Printing & Scanning)
- SDI (Selective Dissemination of Information) Service
- Automated SMS alerts to the library patrons
- Digital Library having 18 computer systems with internet connection
- Utility area provided for the usage of Laptops and its charging purpose

Digital library:

The Digital Library is an added facility for the benefit of the students and faculty. Digital Library has 18 systems with internet connectivity to access the digital content like NPTEL Video Lectures, MIT Open Courseware, e-Books and Projects thorough "College Data Share" (Institutional Repository) software. It has the best pedagogical methods and practices of teaching and learning process taught by the reputed professors of the IITs, IISc, IIMs.

User can access "College Data Share" within the campus by using the local IP and even can access anywhere by using the public IP.

- http://172.16.71.253 – Local IP
- http://119.235.48.156 – Public IP

Digital Library extends service to

- NPTEL digital lectures which are taught by many IIT & IISc professors
- Massachusetts Institute of Technology (MIT) Course ware
- E-books, Projects, PDF Notes, PPTs.
- Universities Information
- Industries Information
- Course Material

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

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

library enrichment

Response:

The Central Library has good collection of special reports, subject hand books, rare books, subject dictionaries, motivational books, competitive books, autobiographies, manuscripts and good reference collections apart from regular academic text books for the knowledge enrichment of student and faculty community.

SPECIAL REPORTS & HAND BOOKS:

S.NO.	TITLE OF THE BOOK	AUTHOR(S)
1	Compendium of Selected e-Governance Initiatives in India - 2013	Harish P.Iyer; Ayaluri; Dr. P
2	Computer Communication, Networking and Internet Security: Proceedings of IC3T 2016	Suresh Chand
3	Emerging ICT for Bridging the Future – Proceedings of the 49th Annual Convention of the Computer Society of India (CSI)Volume 1	Suresh Chand
4	Emerging ICT for Bridging the Future – Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1	Suresh Chand
5	Data Engineering and Intelligent Computing: Proceedings of IC3T 2016	Suresh Chand
6	International Journal of Advances in Computer, Electrical & Electronics Engineering	Dr. Vaka Mur
7	International Conference on Materials Research and Applications [ICMRA-2016] 11-13 March, 2016	
8	International Conference on Recent Innovations in Civil & Mechanical Engineering [i-CAM2K16] 28-29th March 2014	
9	Materials Today: Proceedings (International Conference on Materials Research and applications (ICMRA-2016)	Elsevier
10	Hand Book on Non-destructive Testing of Concrete	V.M. Malhotr N.J.Carino
11	Structural Steel Designer's Handbook	Roger L. Broc Frederick S.M
12	The Engineering Hand Book	Richard C.Do
13	The Electronics Hand Book	Jerry.Whitake
14	Marks Standard Handbook	Eugene A.Ava
15	Advanced Materials Processing and Characterization	J.Hemalatha & [Editors]
16	Cultural Tourism Contributions and Heritage Values of Telangana	Dr.V.Varija
17	Strategies in Teacher Education: Role of ICT	Prof. V.Dayak
18	Library Security Management in Digital Era	N.Rupsingh N Rao; Prof. B.S V.Nireekshana

19	Hand Book of Computer Science& Engineering	GK Publicatio
20	Hand Book of Electronics Engineering	GK Publicatio
21	Hand Book of Mechanical Engineering	GK Publicatio
22	Hand Book of Computer Science & Engineering	GK Publicatio
23	Concise Hand Book of Civil Engineering	Vazirani, V.N

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

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document

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

Response: 11.71

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

2017-18	2016-17	2015-16	2014-15	2013-14
5.00	9.7	8.05	8.5	27.3

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

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

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 30.57

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

Response: 395

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

CMRTC constantly upgrades both software and hardware as per the prescribed norms and academic standards. The following are the strategies for deploying and upgrading IT infrastructure and associated facilities.

- The required count of computers is maintained, as per prescribed norms. Obsolete computers are replaced periodically.
- Recently, all P-4 computer systems were replaced with i3 processor systems in all computer labs.
- Software is purchased and license is renewed, as per syllabus requirement. Internet bandwidth connectivity is upgraded based on need.
- Wi-Fi connectivity provided on entire campus is upgraded periodically.
- Fire wall and anti-virus software are procured for security. IT enabled accessories are purchased, as per requirement. Maintenance is carried out regularly.

IT Service Management

CMRTC is in process of developing an elaborative comprehensive IT service policy. However, institution adopts best practices for scalable and sustainable implementation of its IT services. It provides computing and networking services such as desktops, laptops, Wi-Fi based Internet to all departments, library and offices. Appropriate standards are followed for selection, purchase, setup and maintenance of all computing and networking equipment. In addition the industry recommended protocols to securely store and transmitting the data are followed.

Information Security

CMRTC provides necessary and sufficient education and training to the users of the computing and networking recourses so that they can understand the importance of information security in general and exercise appropriate care while handling confidential information in particular. To achieve this, for example, the proxy servers are configured to block spam messages and malicious attachments.

Network Security

CMRTC follows appropriate safety standards for protecting information against generic threats posed by computer hackers and intruders. Remote access to the computing facilities is limited only to authentic users. Appropriate Firewall settings are done and used for securing data transmission and restricting intrusion.

Risk Management

The institute IT assets such as website, e-resources, campus automation system are protected against vulnerability, threats, and thefts through Sequirite (Quick Heal) Antivirus.

Open Source Resources

For judicious utilization of fund as well as not to violate the licensing agreements in use of advanced software tools, the college emphasizes on use of free and open source software as per the guidelines of AICTE and affiliating University.

LAN facility:

Both Ethernet as well as Wi-Fi LAN with broadband Internet facilities are available in all the departments and office buildings. The Ethernet LAN and 100 Mbps (Vainavi Broad band Pvt Ltd) dedicated Internet facility have been upgraded to Wi-Fi LANs and broadband Internet connectivity to provide seamless transmission of data as well as an optimal remote access of computing resources. Up-gradation to fibre optic LAN in the campus is in the agenda for future.

Upgrading the IT Infrastructure & Associated Facilities

The Academic Advisory Committee of CMRTC periodically reviews the IT infrastructure and recommends the necessary up gradation as per the requirements. The IT infrastructure strategies are developed as per the guidelines of AICTE & University from time to time.

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

4.3.2 Student - Computer ratio

Response: 0.86

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

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

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

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

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

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	[View Document](#)
Link to photographs	[View Document](#)

4.4 Maintenance of Campus Infrastructure

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

Response: 7.29

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

2017-18	2016-17	2015-16	2014-15	2013-14
38.81	51.67	46.92	74.50	27.73

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)
Audited statements of accounts.	[View Document](#)

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

Response:

Policy for infrastructure management

CMRTC is committed to provide the best infrastructure to all its departments and other functional areas to ensure that the infrastructure meets and exceeds the requirement of teaching learning and other processes as specified by the statutory bodies both in terms of quantity and quality. This policy for Infrastructure Management of CMRTC has been formulated for planning infrastructure through need analysis considering the guidelines of statutory bodies and development in technology including educational technology ; procurement of infrastructure ensuring its quality and cost; up gradation from time to time; proper accounting and safe guarding by putting inventory numbers on each equipment and maintaining asset register, upkeep of the equipment through regular cleaning, preventive and corrective maintenance including Annual maintenance contracts; insurance against damage and theft and writing off of obsolete equipment.

Creation of infrastructure

To ensure the adequacy of the infrastructure including land, buildings, equipment, computer hardware and software, the norms of the statutory bodies like University Grants Commission (UGC), All India council for Technical Education (AICTE), Affiliating University (JNTUH) with regard to resource requirements shall be adhered.

Record of infrastructure

Records of all infrastructure including equipment, software, books and other items shall be maintained by all departments and sections of the institute. For this purpose a standard operating procedure (SOP) shall be prepared and circulated. This SOP shall provide definition of assets/piece of infrastructure which must be entered in the stock Register, the process of making entries in the stock Register, the coding of each item and marking of inventory numbers on pieces of infrastructure. The SOP shall also focus on depreciation,

physical asset verification and its periodicity, transfer of assets from one to the other department, writing off of obsolete items and their disposal.

Insurance

Items of infrastructure of all departments of the college costing above a specified amount shall be insured against damage and theft.

Upkeep and maintenance

All departments shall strictly follow the laid down procedures and guidelines of the institute with regard to cleanliness and preventive and corrective maintenance of infrastructure. This shall include the following.

1. Regular cleaning as per the checklists
2. Regular inspection and periodic maintenance of equipment including lubrication, wherever necessary
3. Preventive maintenance as per the preventive maintenance schedules and maintenance its records.
4. Annual maintenance contract and maintaining record of service / maintenance
5. Corrective maintenance and its records.

Phasing out obsolescence and writing off

Infrastructure rendered obsolete on account of change in technology, new product and process developments shall be phased out. Any one of a combination of the following shall be adopted

1. Deploying old equipment on tasks of lower level utilization like computers from labs can be deployed on office work for word processing.
2. Transferring assets to other institutes which can utilize the old equipments productively.
3. Selling the old assets through auction or other arrangements.
4. The assets thus transferred or disposed off shall be written off from the stock register by appropriate authority.

File Description	Document
Link for Additional Information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 58.42

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

2017-18	2016-17	2015-16	2014-15	2013-14
566	561	556	518	556

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

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

Response: 4.12

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

2017-18	2016-17	2015-16	2014-15	2013-14
43	38	43	34	37

File Description	Document
Any additional information	[View Document]

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations

2. Career counselling

3. Soft skill development

4. Remedial coaching

5. Language lab

6. Bridge courses

7. Yoga and meditation

8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

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

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

Response: 49.04

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

2017-18	2016-17	2015-16	2014-15	2013-14
551	522	499	405	369

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

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

Response: 0

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

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

File Description	Document
Details of the students benifitted by VET	[View Document](#)

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

Response: Yes

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

5.2 Student Progression

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

Response: 42.35

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

2017-18	2016-17	2015-16	2014-15	2013-14
361	326	303	262	238

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

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

Response: 4.76

5.2.2.1 Number of outgoing students progressing to higher education

Response: 43

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

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

Response: 100

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

2017-18	2016-17	2015-16	2014-15	2013-14
24	19	32	39	32

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

2017-18	2016-17	2015-16	2014-15	2013-14
24	19	32	39	32

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

5.3 Student Participation and Activities

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

Response: 8

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	3	0	0	0

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

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

Response:

Objective of Student Council is to demeanour activities and provide services involving students constructively in both co-curricular & extracurricular activities. The Student Activity Cell [SAC] of CMRTC consists of the following clubs which focus and facilitates for overall development of students. Each club is headed by a faculty advisor and constitutes President, Vice President, Secretary, Treasure and members of each class.

- Aakriti - The Cultural Club
- Lexis – The Literary Club

- Sahaya – The Helping Hand
- Innovative Club
- Robotics Club
- Film & Photography Club
- Sports Club
- National Service Scheme (NSS)

Aakriti club for planning & organizing culture activities, technical fests, events, workshops, and religious functions at institute level.

Lexis club is to develop literary amongst students to improve self confidence, oral communication skills and personality development.

Sahaya is a social service, extending a helping hand to the poor and needy people.

Innovative club makes students to work in a group to stimulate innovative thinking and arive at solutions to the betterment of human kind.

Robotics club encourages students to share their enthusiasm on robotics in turn enhances student's problem-solving skills, team work, creativity and technical knowledge & learning to prepare robots for various competitions.

Film & Photography Club bring out the creative skills of photography and film making. The memebres of the club shoulders the responsibility of caputuring and documenting various events happening in the institute.

NSS programme aims to inculcate social awareness in students, to provide service to society and promotes goverment initiavtives like Swach Bharat, Swach Pakwada, Harita Haram, Swasth India, Digital India and many more.

Sports club is responsible for providing opportunities to practice various sports and motivating students for participation, fostering healthy competition.

Department association: Apart from clubs, Association Activity hours are also provided from 2 to 4 PM on all working days, addressing a wide variety of topics through Seminars, GD's, JAM, Debating sessions, elocution, project expos, paper and poster presentations, in-house competitions, storytelling sessions etc.The department associations regularly organize technical programs under the banner of clubs and societies. The associations regularly conduct various programs by in-house faculty members and inviting experts from industry as resource persons.

CMRTC students from all department have student chapters CSI, IEEE, ACCE, ISTE, SAE, and IETE.

Students' representation in Various Committee

CMRTC verily promotes representation of students in various committees. This provides a platform for the students to express their opnions and issues related to the curricular, co-curricular, extra-curricular and other support services.

The following are the committees/ bodies where students are made part of it.

- ISTE/IETE/IEEE/SAE/CSI/ASSE
- Department Associations
- Student activity Cell
- Clubs
- National Service Scheme
- Anti-Ragging Committee
- Grievance and Redressal Committee
- Alumni association

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

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

Response: 22.6

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

2017-18	2016-17	2015-16	2014-15	2013-14
29	19	25	20	20

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

5.4 Alumni Engagement

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

Response:

CMRTC Alumni Association (CMRTCAA) is a registered body, which strives to create a forum to foster a fruitful communication and a congenial relationship between the Alumni and the students. CMRTC alumnus conducts Alumni meet every year on last Saturday of December. The institute strongly believes

the success of alumnus reflects the success of the Alma Mater. CMRTC believes in the dictum that the strength of the institution lies in the rapport maintained between its alumnus and the institute.

- The Alumni acts as advisory members in all professional bodies and closely monitors and advices to the students on various events.
- Alumni members create awareness on employment opportunities and provide guidance to the pre-final and final year students.
- Alumni members contribute to the various social service activities through SAHAYA.
- SAHAYA is a non-profit trust which renders its service to orphanages, old age homes etc. with the support of alumni and public.
- Alumni members help in getting permission for industrial visits in their organization.
- Alumni members help in coordinating for signing MoU with companies where the alumni are working.
- Frequently the members of alumina deliver guest lecturers /seminars to the students on recent advances in the industry, industry expectations and how to prepare for campus placements etc.
- Each department separately conducts meetings with their alumni members.
- Alumni members are also part of NSS activities.
- Alumni proactively give feedback on syllabus and even provide input in formulation of POs and PEOs.
- Alumni have been instrumental in aiding financially by contributing books to the library.

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

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

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: 4 Lakhs - 5 Lakhs

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

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

Response: 4

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

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

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

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Vision:

To impart quality education in serene atmosphere thus strive for excellence in Technology and Research.

Mission:

- To create state of art facilities for effective Teaching – Learning process.
- Pursue and Disseminate knowledge based research to meet the needs of Industry & Society.
- Infuse Professional, Ethical and Societal values among Learning Community.

Quality Policy:

- The management is committed in assuring quality service to all its stakeholders like parents, students, alumni, employees, employers and the community.
- Continual quality improvement by establishing and implementing mechanisms and modalities.
- Transparency in procedures and access to information and actions.

Effective leadership in tune with the Vision And Mission of the Institute:

Engineering Education contributes in nation building in a positive manner. To accomplish such task effective leadership is paramount. In view of this the leadership of CMRTC has acquired 10 acre of land, constructed infrastructure comprising of well-equipped classrooms, cafeteria, hostels, labs, library, auditorium, play areas and related infrastructure. Recruited dedicated, qualified staff to take forward its commitment and vision. CMRTC leadership has formulated a hierarchical structure of organisation and policies to meet the vision and mission of CMRTC.

Nature of Governance:

CMRTC Governing body is top decision-making entity, which schedules meeting twice in a year, critical important decisions with respect to budgetary allocation and academic improvements are taken and the same is passed on to the member secretary of governing body, i.e. Director of CMRTC. Further the Director summons the Deans and HODs of various departments to prepare the strategies for implementation of the decisions taken in the governing body meeting. The proceedings of the governing body meeting are reviewed periodically and required steps are undertaken for successful implementation of the same.

Participation of the teachers in the decision making Bodies:

CMRTC believes teachers form the core group of decision implementation. Imperative, teachers from all

cadres are part of every committee formed in line with requirements of higher education regulatory bodies like AICTE, UGC, NBA, NAAC and affiliating university. The Director, Deans and HODs, with help of faculty members review the progress achieved and problems faced by various committees. The management has always welcomed the views and suggestions expressed by the faculties in taking institution ahead. The presence of the faculty can be found in all the following committees.

- Academic Advisory Committee
- Academic Audit Committee
- Program assessment committee
- Department Advisory committee
- Staff Selection committee
- Anti Ragging & Disciplinary Committee
- Grievance Redressal Committee
- IQAC Committee
- R & D Committee
- Student Welfare Committee
- Training & Placement Committee
- Sports Committee
- Library Committee
- Purchase Committee
- Maintenance Committee
- Social Welfare Committee

Senior professors from departments are identified in line with their expertise and background to head these committees. The members are faculty of different cadres. Selected committees have even students as members.

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

6.1.2 The institution practices decentralization and participative management

Response:

Decentralization and participative management

  Macro management level policy of CMRTC is defined by the management and being percolated to different authorities which include Deans, HODs, Exams, Admin & Account Sections as depicted in the Organogram. Faculty members and other employees of CMRTC adhere diligently all such management decisions. Two senior faculty members represent in the CMRTC Governing Body, the appellate body in the Institute. Faculty members are part of Anti-ragging Committee, Research and Development Cell, Consultancy Cell, College Day celebration Committee, Technical Exhibition Committee, Examinations Committee, Sports day Committee, Cultural festival Committee, and many other committees that are

constituted for the smooth conduction of various events. All the new and revised policies to improve academic activities, methodology of conducting examinations are reviewed and discussed in HODs meeting before implementation.

For the effective and efficient implementation of its Policy, the management has promulgated the following practices which show the participation of faculty at various levels.

1. Adequate financial support to each department and programme for facilitating the academic achievements.
2. Recruitment of qualified staff as per AICTE guidelines.
3. Motivation, guidance, appreciation, incentives and moral support to all the stakeholders.
4. Involvement in academic events organised by Institute.
5. Developing effective mechanism for monitoring the activities.
6. Arranging periodical meetings for interactions with teaching and non-teaching staff.

Case Study:

CMRTC has various practices which highlight the decentralization and participative management. Out of all such practices, one such practice is conduction of courses other than curriculum, as explained below:

Every department has a privilege to identify the grey areas in their respective domain and select few thrust areas to offer the students as special training. In this regard Department of Mechanical Engineering has identified that students should be trained in the field of Design software as there is lot of demand in the market. Two faculty members with the similar background were nominated to coordinate the program. Based on their networking, they identified the right resources from the industry (ARK Info Solution) as the training partner and negotiated the training charges. The program was designed by the faculty with zero involvement from the management such that the students are trained in at-least one software per semester, subsequently the students get trained in at-least four software by the time he/she completes the degree. The provision is made for part payment of fee semester wise instead paying as a lump-sum. Similarly, all the departments in the college has started such courses which are outside curriculum, highlighting the decentralization and participative management.

Additionally, following points further strengthen the decentralization process

- HOD had been provided full flexibility to allocate the subjects in their respective departments without any intervention from the management.
- Further drill downing even in the department the time table coordinator is provided full freedom to design the time table based on the convenience of the faculty.

6.2 Strategy Development and Deployment

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

Response:

CMRTC is determined to engage in strategic planning by a variety of external and internal factors for

success. The strategic plan of CMRTC is formulated with Academics, Research and Infrastructure as key criteria. In line with the defined plans, a case study with respect to research is presented below.

As per one of the predefined strategy the faculty are expected to keep updates in their respective domains and engage themselves in quality research works. Faculties are encouraged to respond to call for research proposals from government, elite agencies and industry. In view of this more than 20 research related proposals are drafted and submitted from various departments in last three years. Out of these, seven proposals are already sanctioned with the financial worth of around Rs TWO CRORE. Further the faculties have published more than 250 research articles in last few years. The below list clearly indicates the implementation of one of the goals in the strategic plan.

Proposal Title	Duration	Agency	Scheme Type / Ref.No	Amount (in Lakhs)	PI & Co-PI	D
-	1 Year	UGC	Raman Fellowship for Post Doctoral Research	2513752.00	Dr. Y. Vijay Kumar	H (Phy
National Conference on Computer, Security, Image Processing, Graphics, Mobility and Analytical (NCCSIGMA-2016)	-	SERB DST	Fund for Science & Engineering Research (FSER) Seminar Symposia Scheme	100000.00	Dr. K.Srujan Raju	C
Metal Oxide Nanocompsites for BTEX Sensor Application	3 Years	SERB DST	Fund for Science & Engineering Research (FSER) Early Career Research Award (EC Physical & Mathematical Sciences	2860000.00	Dr. P. Nagaraju	H (Phy
Context Vector Machine for Thematic Traits in Multimedia Files and Documents	3 Years	DST	Cognitive Science Research Initiative (CSRI)	3773600.00	Dr. K. Srujan Raju	C
Assessment of R&D Impact on Socio-Economic Status of Rural India	3 Years	DST	NSTMIS	3655960.00	G R Sinha, Dr. A. Raji Reddy, Dr. K. Srujan Raju	E(MI C
Prediction of the Air Quality in Road Traffic Air-water samples by	-	DBT	Department of Bio-Technology (DBT) Foldscope Instruments and	800000.00	Dr. Venkatakrishnan G. Srikanth	E(

Temporal-Spatial Distribution using Foldscope			Prakash Lab			
For PG Colleges at Level - 0	5 Years	DST	FUND FOR IMPROVEMENT OF S&T INFRASTRUCTURE (FIST)	4500000.00	Dr. A. Raji Reddy Prof. G. Srikanth	ME EC
Language Agnostic Privacy Preserving Using Adaptive Neural Network	3 Years	DST	CSRI – KIRAN DIVISION TPN / 21164 DST/CSRI/2018/236	6112000.00	Dr. Ashutosh Saxena Dr. K. Srujan Raju Dr. M. Varaprasad Rao	C
TiO2 based hybrid photoanodes for high efficient and cost-effective dye-sensitised solar cells	3 Years	DST	SERB ECR/2018/000534/PMS	3591400.00	Dr. Y. Vijay Kumar	H (Phy
Study of Stimulating Research in Indian Universities for Socio-Economic Development of India	-	DST	NSTMIS Ref.No: DST/NSTMIS/05/252/ 2017-18	5100000.00	Dr. A. Raji Reddy Dr. G. R. Sinha G. Srikanth	ME EC

File Description	Document
Strategic Plan and deployment documents on the website	[View Document](#)

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

Response:

Governing Body

The brief functions of Governing body are as below:

1. To monitor academic, student, faculty development and other related activities of CMRTC.
2. To approve the recommendations of the Staff Selection Committee.
3. Implementation of policy decisions received from the University, state Government, AICTE and other regulatory bodies.
4. To approve the annual budget of CMRTC.

Academic Advisory Committee

Director, Deans, Heads of Departments constitute college development council named as Academic Advisory Committee. This Committee translates the policy decisions of the management into implementable activities and follows up with their execution.

The Academic Advisory Committee takes-up the following activities.

- Draft policy frame work from the guide lines provided in the Administrative procedural manual by the management.
- Frame necessary academic structure as to achieve all objectives of CMRTC.
- Facilitate events such as faculty and student induction programmes, workshops, seminars and symposium, cultural activities.
- Review academic and related activities of CMRTC.
- Visualize and formulate perspective plans for sustained growth of CMRTC.
- Formulate master plan for campus development, facilitating implementation of provision of the perspective plan.
- Plan for resource mobilization through industry interaction, consultancy and extramural funding.
- Promote research and extension activities in CMRTC.
- Promote teaching innovations and student placement programs.
- Recommend schemes to promote participation of academic departments in community development activities in the region.

The Director

The Director is the academic head for all the activities of CMRTC, responsible for implementation of all the policy decisions of the management with a view to achieve set targets. As the head of the Institution, the Director is a leader who inspires all critical stakeholders, motivates them for cordial working atmosphere.

Deans

Deans are appointed by the Director in specific domains of academic and general administration to assist the Director, from amongst the Professors in CMRTC. Dean plays an important role in taking forward the institution in a specific domain across the departments, wherein he/she is expected to strive hard to maintain uniformity and balanced growth of all the departments in their respective allotted domains.

Head of Department

Departments will be managed by the Head of Department who will work under the guidance of the Director to reach the targets.

Grievances Redressal Committee

Senior faculty, Heads of Departments, senior female faculty from each department constitute the grievances redressal committee.

Functions

1. To enquire into the complaints received from the aggrieved students/staff about any incident, including ragging.
2. To recommend to the Director, the penalty to be imposed, action to be taken and corrective measures to be formulated.

The Director upon receipt of the report from the committee shall, after giving an opportunity of being heard to the person complained against, takes the appropriate decision.

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

6.2.3 Implementation of e-governance in areas of operation

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

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

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

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

Response:

Ensuring effective functioning of various bodies/ Cells/ Committees, there is a visible sustained improvement in campus infrastructure, facilities, landscape, hostel, academic planning, student- faculty relation, Campus placements, and many more.

Based on the feedback collected from various stakeholders, Director refers the issues to various committees to take necessary actions for academic excellence and for proactive and effective administration. Director regularly interacts and receives feedback from students, faculty and parents. Subsequently, the Director instructs the concerned HOD to initiate necessary action in the interest of stakeholders.

Out of many practices adopted in the institute, one such activity is mentioned below, highlighting the effectiveness of implementation of Minutes of meeting.

Keeping the current developments in industry, the need was felt to have dedicated set up for catering the technological needs. The same was proposed in one of the meeting chaired by director and HODs as members of the meeting. The topic of setting up various centres in different departments was deliberated and resolution was passed to establish centres in each department. Later the guidelines were framed and formally circulated to respective departments for their perusal. Subsequently, HOD had an internal faculty meeting, discussed for the apt technology to be perceived in the upcoming centre. The outcome of the entire exercise is evident when we see multiple centres groomed in short span of time. The following centres are currently functional in the institute.

· Centre for Additive Manufacturing & Product Design

· Centre for Structural Engineering

· Centre for Geotechnical Engineering

· Centre for VLSI & Embedded Systems Design

· Centre for Advanced Communication Systems

· Centre for Signal and Image processing

·   Centre for Mobile and Web Technologies

·   Centre for Internet of Things

·   Centre for Data Analytics

·   Centre for Artificial Intelligence and deep learning

The minutes of meeting and guidelines of setting up centres are uploaded as an additional document.

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

6.3 Faculty Empowerment Strategies

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

Response:

CMRTC initiatives towards the welfare of its teaching and non- teaching staff include the following:

- Training in the use of computers for non teaching staff to motivate them to undertake self-development.
- Facilitation of faculty participation in programmes for professional development, organized by the institute and also other agencies, through grant of leave and providing financial incentives.
- Financial incentives and on duty leave for faculty who are engaged in research related works.
- Organizing Health Awareness programmes.
- Organization of sports and cultural activities in which all staff can participate.
- Subsidized transport for non teaching staff and faculty.
- Group insurance scheme for staff members.
- Gifts to the staff members on occasion of Marriage, house warming ceremony, children marriage.
- Free-ships for the children of staff members.
- Maternity leave for female staff members.
- Subsidized Medical facility at select hospitals in the city.
- Financial assistance for higher studies.
- Employees Provident Fund to the eligible staff members.
- Canteen facilities for students and staff.
- Uniform for Class-IV and Security Employees.
- Outdoor activities including recreational tours for staff.
- Faculty and management development programs.

An exemplary proof on staff club activity is attached as additional information.

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

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

Response: 62.08

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

2017-18	2016-17	2015-16	2014-15	2013-14
183	148	119	121	103

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	[View Document](#)

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

Response: 26.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
32	28	29	24	19

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	[View Document](#)

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

years

Response: 88.08

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

2017-18	2016-17	2015-16	2014-15	2013-14
202	199	185	191	169

File Description	Document
Details of teachers attending professional development programs during the last five years	[View Document](#)

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

Response:

CMRTC adheres to API system introduced by UGC/AICTE/ JNTUH for assessment of its faculty members. However, for the non teaching staff affiliating university guidelines are followed. The faculty members are advised to download the Self Appraisal form, as available in the public domain at the institute website at their convenience. This facilitates the individual to plan their activities well in advance. Once the window for uploading the self appraisal is open, the faculty are directed to submit the completed appraisal form. Generally the appraisal is considered for academic year starting from June to May. The appraisal is typically classified in three broad categories 1) Teaching, Learning and Evaluation Related activities 2) Research and Academic Contributions 3) Co- Curricular and Professional Development Related Activities.

These covers the details of teaching, pass percentage, research, books and papers published, conferences, seminars, workshops, training programmes and academic administration carried out during the academic year. In addition to the annual appraisal, at the end of each semester, the feedback is collected from the students about their concerned faculty, which evaluates the teaching methodology, creativity and level of understanding. The submitted self-appraisal forms are consolidated with student feedback. HOD remarks will also be considered for evaluation process. Candidates should offer themselves for assessment for promotion, if they fulfil the minimum self appraisal scores indicated in the form. Institute also has a provision to provide guidance and support to underperformers and extends opportunities to cope up with the existing standards.

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

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

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

Brief of both the audits is attached as additional information.

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

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 40.27

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

2017-18	2016-17	2015-16	2014-15	2013-14
3.94	8.58	4.78	10.56	12.41

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

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

Response:

CMR Technical Campus, established under the society of CMR Technical Education Society as a private engineering college has always been keen in optimal utilization of their infrastructure and resources. Major source of funds is through tuition fee as regulated by Telangana State Fee Regulation Authority, Government of Telangana. However the institution has made its consistent efforts to generate the funds from all the tangible sources. The major fund mobilisation resources can be classified into three broad categories, 1) Buildings 2) Equipment 3) Man Power.

Buildings:

- The auditorium is used for conducting Promotion of movies, audio launch of Films, Live Shows etc.
- As CMTRC is facilitated with Girls Hostel, during vacations it is effectively utilised for boarding of Conference/ FDP/ Seminar participants at nominal charges.
- The sprawling ground of CMRTC is used to conduct sporting events for Corporate, Inter College sports events, and University sports competitions.
- It being a known fact that the competitive exams (TSPSC, GATE, AFCAT, NEET, EAMCET etc.) are being scheduled typically on Sundays, the college infrastructure is effectively used for this purpose.

Equipment:

- As the institute is privileged with more than 1000 computers, it has the potential to conduct the professional online examination to its fullest.
- The state of art laboratories present in Mechanical and Civil engineering departments permit them to hire their services/ equipment for generation of funds.
- The research centres established in each department have identified various ways of generating funds.
- The highly sophisticated equipment, procured by grants for carrying research in the institute also churn funds by catering the experimental testing needs.

Human Resources:

- Vast expertise in various domains enable faculty to accept the consultancy assignments in private/ public domains.
- Faculty are readily available for effective conduction of Faculty development programs and also engaged in creation of e-course contents.

6.5 Internal Quality Assurance System

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

Response:

In the recent past (2017-18) the institute has constituted Internal Quality Assurance Cell under the chairmanship of Director, along with the IQAC Coordinator as member Secretary. Setting value chain, all six departments were asked to depute a suitable faculty member to coordinate quality related activities in the department, as mentored by Coordinator (IQAC). The institute has been surviving with many of organisational procedures and academic activities, which had a scope of improvements. It was with the emergence of IQAC, that many of the practices which were in place have effectively taken a better shape. The prime task with which the IQAC is established is to streamline the existing procedures, policies and practices, aiming at overall improvement in the performance of the institute.

Out of several best practices, two of them are uploaded as attachment.

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

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

Response:

IQAC even though not having long existence in the college, right from the period of inception it has taken up the issues related to teaching and learning. It has considered the transparency in teaching learning process as its prime motto. The cell has initially studied the prevailing processes and the profiles of the faculty along with their expertise. Subsequently identified the gaps and had discussions with all the stake holders to bridge the gap. The relevant outcome of the internal discussions of IQAC is circulated time to time to all the stakeholders. One such example is continuous evaluation of students. According to affiliated university examination pattern, the students are evaluated only two times in a semester. It is observed that the students were relatively non serious other than the examination schedule. It was felt that the continues evaluation of students should be carried out. Due to this it was proposed to have a test scheduled in every month on the pattern of university exam comprising one unit at a time.

In yet another example, IQAC play an important role in inducting new faculty. Every semester as the new faculty joins the institute, IQAC mandates them to attend the orientation program, where several doubts and queries of the new faculty are clarified and at the same time, suggestions are sought for betterment. IQAC mandates the use of digital information system effectively and encourages the social networking wherever possible. IQAC in coordination with Dean Academics, review the timely completion of syllabus and effective conduction of examination. To be in line with industrial needs and latest technologies, faculties are encouraged and nominated for FDPs, Workshops and Seminars.

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

Response: 1.2

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

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

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

6.5.4 Quality assurance initiatives of the institution include:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
e-copies of the accreditations and certifications	[View Document]()
Details of Quality assurance initiatives of the institution	[View Document]()
Annual reports of institution	[View Document]()

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post**

accreditation quality initiatives *(second and subsequent cycles)*

Response:

CMRTC enjoys permanent affiliation with JNTU Hyderabad where the curriculum is predefined and academic audit as well as assessment is done by JNTUH on regular intervals. The quality assurance program of the institute is framed according to the timely guidelines issued by the affiliating university. The campus is supported by the College Automation System (CAS), ERP software which handles the student data, faculty information, institute accounting etc. The administrative autonomy is provided to all the Heads to cater the needs of the department. The student academic performance is dissipated through the online messages and web portal to the parents in timely manner. The faculty teaching and learning process is available on the portal through which a faculty can upload the lectures, interact with the students and perform such related works. Under the digital initiatives, the institute has started several projects to convert entire institute as paperless organisation comprising administration and academics operations. Conducting these practices will further improve the quality of the system.

IQAC is formulated according to the guidelines of NAAC in the year 2017–18.The Internal Quality Assurance Cell has contributed towards institutionalizing the quality assurance strategies and processes by carrying out the following functions.

- Establishment and standardization of various parameters for different academic and administrative activities of the institute.
- Standardization procedures to organize various activities and standard formats for their quality assessment.
- Organization of seminars and workshops on quality and related themes.
- Developing quality benchmarks for the institute through strategic planning to achieve the vision of the Institute.
- Monitoring the attainment of performance targets (PEOs and POs) of the programmes that are set by the respective Department Advisory Committee (DAC).
- Facilitating a learner-centric environment conducive for quality education.
- Provisioning to obtain feedback from students, parents, alumni and employees on quality-related processes.
- Documenting the quality enhancement programmes /activities of the college.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 39

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

2017-18	2016-17	2015-16	2014-15	2013-14
12	10	9	5	3

File Description	Document
Report of the event	View Document
List of gender equity promotion programs organized by the institution	View Document

7.1.2

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

Response:

CMRTC since its inception has maintained equal opportunities for both male and female without discriminating on gender basis. The gender equality can be found in education, employment and entrepreneurship initiatives. The institute has taken care by organising various gender sensitive programs among the faculty and students.

a) Safety and Security:

Institute has installed CCTV cameras covering the entire places of work, which include seminar halls, labs, and library. Also the cameras are installed in corridors and common places like open auditorium, canteen, main gate and parking area. The monitoring of these is being carried out in a distributed fashion by HODs and Administrative and Security Officer from their respective rooms. In case of any untoward incident the video recordings can be retrieved for verification and this facility has proved to be of immense help in resolving some disputes.

b) Counselling:

The students admitted in the Institute are coming from different back ground and culture. Apart from these they have different societal and financial intricacies. Due to these at times students are bound to undergo stress, depression and may take abrupt decisions like discontinuing the course, harming self and others, etc. To overcome these cases, institute has a mechanism of counselling students to address both personal and career related issues. Generally the senior faculties are entrusted to conduct one-on-one counselling, ensuring privacy of the candidate. At times in serious cases the counselling is being conducted by external professional counsellor (Psychiatrist) also. Group counselling at department and institute level are also facilitated as required.

c) Common Room:

Institute does not differentiate between male and female when it comes to provide essential facilities. There are separate common rooms, restrooms for male and female with essential infrastructural needs like cots, First Aid Box, lockers along with needful amenities.

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

7.1.3 Alternate Energy initiatives such as:

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

Response: 28.09

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

Response: 226300

7.1.3.2 Total annual power requirement (in KWH)

Response: 805555

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 46

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

Response: 47163

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 102528

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

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

Response:

CMRTC practices best possible ways of managing the solid, liquid and E-Waste by performing several activities to manage waste from its inception to its final disposal. The procedures adopted are eco friendly, technically driven, economically sustainable and at the same time abide by legal and regulatory norms. The various measures adopted in the institute are as follows:

Solid waste management

The solid waste can be categorised as

* Degradable (Dust, leaves, twigs, paper)
* Non-degradable (Plastic, glass, bottles, food wrappers etc)

The process of waste management proceeds in the form of collection- treatment- disposal. All forms of solid waste are collected by designated personals from the bins placed at different locations of the campus. The collected waste is fed into the solid waste treatment plant, where the entire waste is burned at around 900oC to form ash. The produced ash is used as fertilizer for farming.

Liquid waste management:

The volume of liquid waste generated at CMRTC is managed with help of sewage treatment plant (STP) located in the campus. Due to the presence of hostels in the campus, it has become mandatory for installation of such system, giving importance to water conservation at the same time. The treated water is used for gardening and cleaning purpose. Prior to this it was managed with the help of soak pits and septic tanks, which allows percolating into the ground.

E-waste management:

Being an institute of higher education, the need for utilization of electronic and computing systems becomes mandatory. Thus it necessitates having an e-waste management system as most of the electronic goods become obsolete after a period of three to four years. The institute has tie up with vendor/suppliers of electronic items to buy back and upgrade as possible. The remaining e-waste is disposed through a certified vendor on periodical basis.

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

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

It is rightly said Conserve water, conserve life, and don't let life slip down the drain. In line with the quote, CMRTC has made efforts to conserve rain water in best possible ways. One of the methods adopted is the rain water harvesting pits. These pits are dug at the points where the drain pipes of the roof tops are let free. This allows the recharge of ground water table.

Institute has adopted an innovative way of harvesting rain water in the form of "Ulta Chatta"- A UG project. The objective of this work is to harvest the rain water with the help of a reversed umbrella shaped structure. This structure is designed in such a way that it harnesses solar energy, rain water and providing atheistic look. The natural slope available in the campus allows all the rain water to get collected a single point leading to overall improvement in the ground water level.

The college emphasizes on the significance of water conversation and explains to all the students the importance of preserving and saving it. Students are encouraged to use water wisely and only when necessary. They also act immediately upon witnessing any wastage and take necessary action to stop it. One of the ways of preserving water in the college is rain water harvesting.

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

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
- **Plastic-free campus**

- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Bicycles:

As a part of promoting pollution free campus, students are encouraged to commute to the institute by bicycles.

Public Transport:

CMRTC is well connected to various corners of the city through its robust transportation system, operating nearly 65 buses. In addition to this, the location of the institute adds to the advantage of easy access to public transport system. Majority of staff and students utilize this facility to its fullest. Few of the students & staff car-pool as a means of commutation.

Pedestrian Friendly roads: The Institute has pedestrian paths within the campus and ways leading towards the institute. This allows pedestrians to walk safely, promoting health, recreation and leisure.

Plastic-free campus:

The institute promotes Plastic free campus by sensitizing the students and staff the disadvantages of using plastic. The control methods involve, display of boards, conduction of seminars and awareness sessions. The NSS unit of the institute is entrusted to monitor the same.

Paperless office:

Though paper is being used as of now, efforts are being made to prepare and maintain paperless

documents. All kinds of paper waste are sent for recycling to the vendors. Usage of paper on campus is minimized and printing is done on both sides only in unavoidable cases. Maximum communication to departments, staff and students is made through mails and other electronic media.

Green landscaping with trees and plants:

Tree plantation and maintenance is the regular practice of the institute to uphold the pristine, purity and aesthetic beauty of the institute to provide a congenial atmosphere for the academic and non-academic pursuits. Wide range of plants and trees are grown in and around the campus are nurtured by gardeners. Organic vegetation, fruits and flowers are grown in the campus to promote healthy living. All the lawns are equipped with sprinkler system and drip to reduce water wastage & less consumption of electricity for regular watering.

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

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

Response: 1.07

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

2017-18	2016-17	2015-16	2014-15	2013-14
10.27	4.86	8.95	9.6	2.34

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

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

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

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	
Any additional information	
link to photos and videos of facilities for Divyangjan	

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

Response: 11

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

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

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	

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

Response: 26

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

2017-18	2016-17	2015-16	2014-15	2013-14
10	6	4	4	2

File Description	Document
Report of the event	

7.1.12

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

Response: Yes

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

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

Response: Yes

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

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

Response: Yes

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

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

Response: Yes

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

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

Response: Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	[View Document](#)

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

Response: 18

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	3	3	3

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

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

Response:

The following days of importance are celebrated at CMRTC:

Independence Day & Republic Day:

Independence Day and Republic Day celebrations at CMRTC exhibit the dedication and commitment of the staff and students towards the nation. On these days, the national heroes are remembered and their sacrifices are highlighted. Various awards are distributed to the students who excelled in sports and social services.

National Youth Day (January 12th)

CMRTC conducts National Youth Day on 12th January in association with Ramakrishna Math. NSS unit of the institute shoulders the responsibility for conduction of the event. As part of that, delegates from RK math deliver seminars on role of youth in building nation.

National Science Day (February 28th)

National science day is celebrated on every year on 28th February in memory of Dr. C.V. Raman's invention of Raman Effect. Poster presentations and quiz competitions are conducted and achievers are honoured with certificates. Scientists in the vicinity from the central and national organizations are invited as guests to motivate faculty and students by bringing the context of latest inventions and research.

Women's Day (March 8th)

International Women's Day is celebrated to highlight the achievements of women. It is celebrated globally on 8 March every year in honour of their remarkable contribution to our society. The day also commemorates the inspiring role of women around the world to secure women's rights and build more equitable societies.

Teachers Day (September 5th)

Teachers Day is celebrated to mark birth anniversary of Dr. Sarvepalli Radhakrishnan in India since 1962. Usually the students initiate the process of celebration in our campus by honouring the teacher and making their day special.

Engineer's day (September 15th)

The Engineering community across India celebrates Engineers Day on 15th September every year as a tribute to the greatest Indian engineer Bharat Ratna Mokshagundam Visveswaraya. On this day the departments organize technical competitions like project expo, essay writing, poster presentation, etc. Distinguished guests are invited to address the students and faculty to inspire the community to excel as engineers following the path of the great personality.

World Student's day (October 15th)

The IEEE student Branch of CMRTC celebrates the birth anniversary of Dr. A. P. J Abdul Kalam who is a visionary, former president, and a teacher. During the celebrations various students' competitions like Technical Quiz, paper Presentations, Poster Presentations and Creative Idea were conducted and prizes are distributed.

Education Day (November 11th)

The ISTE student chapter of CMR Technical Campus celebrates National education Day on 11 th November to commemorate the birth anniversary of Maulana Abul Kalam Azad the first education minister of Independent India.

Mathematics Day (December 22nd)

December 22nd is declared as the National Mathematics Day. The Declaration was made by Dr Manmohan Singh, Former Prime Minister of India, during the inaugural ceremony of the celebrations to mark the 125th birth anniversary of Srinivasa Ramanujan. Events were laden with maths games, quizzes and certified exams.

File Description	Document
Any additional information	<u>View Document</u>

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

Response:

- Internal and external financial audits are regularly carried out and the audited statements are made available on the college website.
- The corrected answer scripts are distributed to students after every Mid-Term examination to know their performance and the same is discussed in the class rooms.
- All the subjects wise Marks are displayed in the notice boards and on the website.
- Institute follows the rules and regulations as depicted in organisational manual, which is available on its website.
- All the important announcements and circulars are communicated to its stake holders.
- Regular circulars are shared through e-mails, WhatsApp groups, Forums, SMS and conventional mode.
- All the grievances and issues are addressed as per the set guidelines.

7.2 Best Practices

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

Response:

BEST PRACTICE NO: 1

1. **Title of the Practice**

Advanced Training Lab

2. **Objectives of the Practice**

- To identify and bridge the gap between industry needs and academia.
- To develop curriculum in line with cutting edge technologies.
- To encourage students for pursing real time projects.
- To enhance the employability skills of students.
- To strength the professional calibre of the faculties, i.e. learn while you earn.

3. **The Context**

Higher education system in our country has grown in a remarkable way to become one of the largest systems of its kind in the world. However, the system has many issues of concern at present, like financing, course structure, management values and ethics and the final product i.e. student quality. It has

been widely observed that the prescribed syllabi take care of the basics and the conceptual framework of different domains. However, there seemed to be gap between the awareness and acumen in implementation in professional world subsequently. This motivates to invite the industry experts in helping to design a curriculum to bridge the identified gaps. Further the need to make students industry ready and help them to have a strong foundation for their future careers. It was a challenge to inculcate this lab apart from the regular course timetable. Gradually the process was streamlined and has evolved into a continuous process. Apart from coursework this lab has gained its position as a forefront in student gaining life-skills and increasing their success rate in job placements as well. The background work has involved the timetable setters as well as the class respective teacher/coordinator in streamlining the class for Advanced Training Lab.

4. **The Practice**

The approach of starting the basics and concepts from scratch to advanced level has been the strongest point in this practice.

A separate syllabi is devised for second, third and fourth year students based on their learning capacities and contemporary to the semester work. The courses like STAAD-PRO, CAD, MATLAB, Xlinix, ETABS, Python, IoT, BigData, Cloud Computing are conducted by the Advanced Training Lab (ATL) will be the next level of application of technical subjects of the branches such as design, programming and analysis. Each respective batch of students pertaining to their respective years will have a stringent lecture plan in advance and also have options for certification from the companies.

5. **Evidence of Success**

- The students are able to transform basic and applied mathematical concepts into programming language.
- The specific course knowledge imparted to students has resulted in sharpening their knowledge which is evident in implementation of their minor and major projects.
- Streamlining the advanced lab session along with university coursework has further helped the students to have more confidence in their regular subjects.
- Enhanced participation of students in various technical competitions like hackathon, Code contest, Do it yourself, Design contest and many more.
- Improved campus placements and rise in pay package.
- Few students have initiated start-ups in their domain.

6. **Problems Encountered and Resources Required**

The initial problems faced were with respect to syllabus where there was ambiguity in the knowledge gap with respect to university syllabus. This eventually led to the syllabus forming body that decided on the level and several topics of the course taught to students appropriate for that academic year. This solves the problem of breakage of class work for the sake of the lab.

1. Setting of ATL time tables amidst university coursework.

2. Setting of ATL syllabus appropriate to student subjects.
3. MOU's with third party industry trainers for the benefit of student.
4. Lecture schedule and lecture plans.

BEST PRACTICE NO:2

1. **Title of the Practice**

Department Association Activity Hour

2. **Objectives of the Practice**

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

3. The Context

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

4. The Practice

A streamlined procedure is laid for association activity hours involving students of II, III and IV year of their respective departments. Each department is allotted a day in a week with last two hours for conducting events. The President, Vice president, General Secretary, Joint Secretary, Treasurer and executive members are elected members of Executive body. This body is guided by a faculty member as an advisor. The executive body prepares the calendar of events at the beginning of each semester. The list of activities includes Guest lectures, Workshops, Seminars, Alumni talks, technical presentations, Just-a-minute (JAM), group discussions, debates and other activities.

The main areas of target of development of student are presentation skills, interview skills, fostering confidence on stage, strengthening soft skills, strengthening spontaneity. Group tasks such as debates, group presentations, event management, taking part in seminars, feedbacks, and interaction with industries are some of the team based development events that take place to improve leadership skills. Keeping student all round advancement and transformation in mind, this intended purpose of the institute to start such a practice has been embraced and will continue steadfastly developing itself with more synchronicity to Higher Education Institution in India.

5. Evidence of Success

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

6. Problems Encountered and Resources Required

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

7.3 Institutional Distinctiveness

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

Response:

CMRTC is committed for creating, archiving and disseminating quality education in congenial environment to strive excellence in Science, Engineering and Technological research for better human kind.

At beginning the institute's focus was on creating state of art infrastructure, achieving academic excellence and inducting quality human resources. As the years progressed, along with the initial goals, the institute has taken up research as its distinctive activity in line with vision and mission. As part of this every effort is being made to create research environment among the students and faculty. It being a continuous process, the institute has been striving hard to make its mark in the national level in specific research arena by establishing research centres in identified domains.

- All eligible UG programs are accredited by National Board of Accreditation.
- Recognized by UGC under section 2(f) & 12(B) of UGC act 1956, which facilitates to receive funds from various government agencies.
- Certified as Scientific and Industrial Research Organization (SIRO) by Department of Science and Industrial Research.
- The institute has collaborated with various research organisation/labs like Iknowlations Labs- Pune,

Global 3-D Labs- Bangalore, Physics department- Osmania university,CSR-UGC-DAE, Indore.

- One of the faculty received prestigious Raman fellowship to carry out his Post Doctoral Research at North Carolina University, USA.
- Nano Sensor Lab is established with aid from Science and Engineering Research Board (SERB) as part of grant received for Early Career Research Award.
- Research in the area of Cognitive Science with grants from CSRI-DST is being carried out in the department of Computer Science Engineering.
- The institute has even received grants for conducting National Conference (NCCSIGMA-16) under Seminar-Symposia Scheme of Science & Engineering Research Board (SERB).
- An ongoing project titled "Assessment of R&D Impact on Socio-Economic Status of Rural India" with aid from NSTMIS shows the concern of institute towards reach of research to rural India.
- Lab View in association with National Instruments is set with help of Fund for Improvement of S&T Infrastructure (FIST).
- Research with a grant from Department of Biotechnology is also a part of ongoing research works in the institute.
- Continuous augmentation and renewal of infrastructure and facilities.
- Involving all stake holders in growth and development of CMRTC.
- Professional and intellectual fulfilment of faculty and staff.
- Centre for Additive manufacturing and product design (CAPD) is established for rapid prototyping, designing products and manufacturing systems that are functional, aesthetic, usable and sustainable.
- Centre for Structural engineering (CSE) and Centre for geotechnical engineering (CGE) are initiated to strengthen research activities among the faculty and student community.
- Centre for VLSI & Embedded system design (CVESD), Centre for Advanced Communication Systems (CACS), Centre for Signal and Image Processing (CSIP) are established in ECE Department to work in the area of communication, Image processing and VLSI.
- Centre for Mobile and Web Technologies (CMWT) and Centre for Internet of Things (CIOT) is established to carry research in the area of latest technologies like Android, IOS and cloud technologies.
- Centre for Data analytics (CDA) and Centre for Artificial Intelligence and Deep Learning (CAIDL) is a facility that centralizes institute Research and Development operations, stores, manages and disseminates its data, projects and training and focuses on current emerging technologies in the field of AI and Deep Learning.
- To encourage research, publications, patents and consultancy the institute has well defined policies and has being providing rewards and incentives.
- The Supervisors of UG and PG projects have been instrumental in taking up innovative and real time projects in their domain.
- In pursuit to enhance their qualification and zeal for research, faculty has enrolled themselves in Ph.D. programs.
- The institute has promoted conduction of various FDPs/ Seminar/ Workshops/ Conferences through the research centres to further strengthen research activities.
- With an aim to create an international exposure, delegates from foreign countries are invited as part of International conferences conducted in the institute.

5. CONCLUSION

Additional Information :

It is always more pleasing if the recognition is coming from external agencies rather than self proclamation. CMRTC would like to highlight about the features which took it to the current levels in the arena of higher education. The 360o developments in several facets of excellence are presented below.

- Dy. Chief Minister of Telengana Conferred Education Promotion and Development Award 2017 organised by CITD.
- STAR Grade by IIT-Bombay Spoken Tutorial Workshops.
- Received "Best Accredited Student Branch Award" consequently Fourth Time from Computer Society of India and also received Longest Continuous Student Branch Counsellor (SBC) Award for 2nd time.
- Ranked 2nd among Top Private Emerging Engineering Institutes in Telangana by Times of India.
- Offering Consultancy service to CRRAO- AIMSCS Hyderabad.
- Selected by Central University to offer internship for PG students.
- Actively engaging international participants in various domains through Conferences.
- Received Centre of Excellence award by HR Club Mumbai.
- Ranked 2nd among Top Most Reviewed Accredited Colleges by Career 360
- Ranked 125th among Top All India Private Engineering Colleges by The Week
- Rated A++ by Deccan Chronicle
- Listed among Top Emerging Engineering Colleges by The Outlook
- Prominent personalities are frequently invited to boost the morale of the students and the staff.
- Microsoft has recognised the institute for Massively Empowered Class Room.
- Stumagz recognised efforts of Institute in conducting Road Safety week.
- A student received World record in Most number of Martial Kicks in one Minute.

Concluding Remarks :

CMRTC being permanently affiliated to JNTUH has clear objectives with well defined Vision and Mission. Since inception, growth in all quadrants viz. Infrastructure, Academics, Research and Extra Curricular has been the prime focus of management. The institute has setup state of art laboratories, well equipped class rooms, seminar halls, Central Library, Auditorium, Computer centres and common facilities with a built-up area of 33,539.60 Sq. m. The institute started with an intake of 300 students with 4 UG & 1 PG and has reached to 1062 students with 5 UG & 5 PG courses in a time frame of 9 years. The students are not only imparted with theoretical knowledge but also they are nurtured for industrial needs. With effective action plan in place, the academic calendar scheduled by the university is verbatim followed while ensuring the course objectives are achieved. This has resulted in obtaining several accreditations like 2f and 12b from UGC, SIRO certification from DST and NBA. The presence of IQAC and R&D Centre is well demonstrated by number of research publications and government sponsored research projects worth two crores. The researchers are encouraged and rewarded for achievements. In Sports and Extra Curricular activities the students has held the flag high by receiving inter university accolades in different events. Apart from above activities the institute has not shed away from executing the social responsibilities as directed by government agencies which is showcased by NSS unit, Sahaya club and the events organised to highlight the days of national importance.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.1.3	Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years 1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
21	19	13	8	3

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
21	5	3	1	0

Remark : Note that One Full-time teacher to be counted once irrespective of number of participation in different bodies in last five years. |
| 1.3.2 | Number of value added courses imparting transferable and life skills offered during the last five years

1.3.2.1. Number of value-added courses imparting transferable and life skills offered during the last five years
Answer before DVV Verification : 54
Answer after DVV Verification: 54 |
| 2.4.2 | Average percentage of full time teachers with Ph.D. during the last five years

2.4.2.1. Number of full time teachers with Ph.D. year-wise during the last five years
Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
42	35	33	32	28

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
42	35	33	32	28
2.4.4	Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years 2.4.4.1. Number of full time teachers receiving awards from state /national /international level

from Government recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
17	9	9	3	3

Answer After DVV Verification :

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

Remark : HEI input edited according to provided documents.

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

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

| 2017-18 | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
\|---\|---\|---\|---\|---\|
\| 109.71 \| 80.49 \| 21.88 \| 15.46 \| 4.98 \|

Answer After DVV Verification :

\| 2017-18 \| 2016-17 \| 2015-16 \| 2014-15 \| 2013-14 \|
\|---\|---\|---\|---\|---\|
\| 122.45 \| 69.35 \| 23.18 \| 14.22 \| 4.92 \| |

from Government recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
17	9	9	3	3

Answer After DVV Verification :

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

Remark : HEI input edited according to provided documents.

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
109.71	80.49	21.88	15.46	4.98

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
122.45	69.35	23.18	14.22	4.92

3.1.2 Percentage of teachers recognised as research guides at present

3.1.2.1. Number of teachers recognised as research guides
Answer before DVV Verification : 22
Answer after DVV Verification: 10

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

3.1.3.1. Number of research projects funded by government and non-government agencies during the last five years
Answer before DVV Verification : 42
Answer after DVV Verification: 42
3.1.3.2. Number of full time teachers worked in the institution during the last 5 years
Answer before DVV Verification : 215

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

	Answer before DVV Verification : Yes Answer After DVV Verification: Yes
3.3.3	Number of Ph.D.s awarded per teacher during the last five years 3.3.3.1. How many Ph.Ds awarded within last five years Answer before DVV Verification : 04 Answer after DVV Verification: 04 3.3.3.2. Number of teachers recognized as guides during the last five years Answer before DVV Verification : 22 Answer after DVV Verification: 3 Remark : HEI input edited according to provided documents.
3.3.4	Number of research papers per teacher in the Journals notified on UGC website during the last five years 3.3.4.1. Number of research papers in the Journals notified on UGC website during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>63</td><td>75</td><td>112</td><td>58</td><td>69</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>87</td><td>89</td><td>68</td><td>47</td><td>55</td></tr></table>
3.4.2	Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years 3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>13</td><td>9</td><td>6</td><td>2</td><td>2</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> Remark : HEI input edited according to provided documents. Note that These awards are to the institution and not to the individual and for extension activities only
3.5.1	Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training,

research, etc during the last five years

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
399	49	50	50	66

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
122	40	12	37	51

Remark : HEI input edited according to provided documents.

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
150	100	125	100	100

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
150	215.5	239.2	103.5	59.98

Remark : HEI input edited according to provided documents.

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
5.00	5.51	7.66	7.05	18.54

Answer After DVV Verification :

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

| 5.00 | 9.7 | 8.05 | 8.5 | 27.3 |

Remark : HEI input edited according to provided documents.

4.4.1	Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years 4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs) Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>38.81</td><td>51.67</td><td>51.84</td><td>47.02</td><td>87.48</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>38.81</td><td>51.67</td><td>46.92</td><td>74.50</td><td>27.73</td></tr></table> Remark : HEI input edited according provided documents.
5.3.1	Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years. 5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>150</td><td>50</td><td>32</td><td>13</td><td>15</td></tr></table> Answer After DVV Verification : <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>5</td><td>3</td><td>0</td><td>0</td><td>0</td></tr></table> Remark : HEI Input edited according to provided documents.
7.1.10	Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years Answer before DVV Verification: <table><tr><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td><td>2013-14</td></tr><tr><td>1</td><td>1</td><td>3</td><td>4</td><td>6</td></tr></table>

Answer After DVV Verification :

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

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
10	8	7	6	5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
10	6	4	4	2

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of courses offered by the institution across all programs during the last five years Answer before DVV Verification : 11 Answer after DVV Verification : 381