

## Institutional Research Policy

The Institutional Research Policy establishes a research environment that supports high standards of research integrity, research excellence and professional conduct. Institution serves the community by the transmission of knowledge through teaching and the determination of knowledge through research. Institution provides superintend dissemination and reporting of research that is practiced competently, safely, ethically and accountably while evincing respect for the wider community and the environment. Institution is committed to supereminence in research based on the national and international standards, and to energetically encouraging the important role of research in teaching. This policy provides the research environment within which academic faculty and postgraduate research students carry out their Research. It directly contributes to economic development, culture, health, social well-being and the advancement of society. It also aims at obtaining that the activities of the research in the Institute obey to all significant rules and guidelines of the UGC, AICTE and Affiliating University as well as to the accustomed norms and standards relating to safe and ethical conduct of research. Research policy of the Institute provides a wide substructure to the activities of research along with the vision and mission of the institute:

### Vision

- To remain a premier academic institution striving continuously for excellence in technical education, research and render technological services to the nation.

### Mission

- To create and sustain a community of learning in which students acquire knowledge and learn to apply it professionally with a concern for the society.
- Pursue and disseminate research findings and offer knowledge-based technological services to satisfy the needs of society and the industry.
- Promote Professional Ethics, Leadership Qualities and Social Responsibilities.

### Research Policy Objectives:

Technical education paves way for innovation and creativity. Strong research and development base is very important to achieve this. Realizing the importance of research and development, R&D Centre was established in CMR College of Engineering & Technology with the following prime objectives:

- To provide a proper coordination of all activities of the research of institute and aligning these to the vision and mission of the institution and national sustainable development goals through Research & Development Centre.
- To identify and inform faculty and students about the suitable funded/sponsored research opportunities notified by different research, academic, industry or government & non-government organizations.



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- To provide support to the faculty research efforts and to encourage student research as part of the curriculum.
- To promote multidisciplinary research and set up methodologies for undertaking and preparing collaborative research projects covering different domains of knowledge as well as policies or involving external experts/agencies in such research projects.
- Through consultancy projects, Institution also provides scope for faculty and students to work on recent trends in technology and evolving technologies with industry standards.
- To identify and establish industry Institute interaction through MoUs/MoAs for long relationships with national and international academic institutions of higher learning and research institutions for widening the scope of research options and funding opportunities for faculty and students.
- To create awareness about Intellectual Property Rights and Patents, encourage Innovation and motivate them to apply for IPR/Patents.
- To encourage and promote faculty & student research publication of their research work/projects in ostensible academic Scopus Indexed Journals (National/International).
- To improve the quality of research publications, the Institution has introduced a scheme of reimbursement of publication charges/registration fees and reward for various categories of Journals as well as for Research Project Grants.
- To create an ecosystem for innovations, foster & encourage entrepreneurship including incubation centre, and other initiatives for creation and transfer of knowledge.
- To motivate & drive the faculty & student research work through R&D events such as Conferences/Workshops/Seminars/Faculty Development Programmes/Student Development Programmes and also encourage the faculty to do higher education in the reputed organisations.
- To facilitate community oriented research initiatives and transfer the research findings for the social innovation and economic development of the community.
- For advanced research and to improve their skills on upcoming technologies, Institution has taken an initiative for granting duty leave, sabbatical leave, study leave, incentives/seed money and reduction in workload, etc., for faculty members involved in research.

#### **Researchers follow the following Ethical Norms:**

To safeguard the quality of all research activities of the institution and to perceive the highest standards of ethics and integrity in the conduct of their research, all researchers must follow the following Code of ethics.

- No falsification of data: Manipulation of research process or experimental setups not allowed. All research records are to be properly maintained.
- No fabrication of data is to be carried out. The research output results should be faithfully reported.
- Plagiarism refers to the appropriation of another person's ideas, processes, results, or words without giving proper credit. While publishing research papers plagiarism should be totally avoided.
- Ethical principles as specified by professional societies like Institution of Engineers (India), IEEE, ASME, ASCE, AICTE and UGC are scrupulously followed.



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## **Research & Development Centre (R&D Centre):**

Institute has a number of high end research centres to strengthen the research activities, teaching learning facilities and employability for UG and PG students. The R&D Centre of the Institute is recognized by Scientific and Industrial Research Organisations (SIRO) and centres shown below amplify the learning outcomes of the UG and PG students. The establishment of new centres also enhances the research among faculty and students on various recent technology domains and improves industry institute interaction.

## **Centres of Excellence & Research Laboratories:**

The R&D Centre of the Institute is recognized by Scientific and Industrial Research Organisations (SIRO) and Department of CSE is recognized as Research Centre by JNTU Hyderabad and Established several Centres of Excellence in association with reputed industries.

The following centres of excellence and research laboratories are established in the Institution to enhance the cognitive skills among students and faculty in advanced technologies to carry out research work.

### **1. Centre for NI Academy:**

A research oriented development lab was established and funded by Fund for Improvement of S&T Infrastructure (FIST) of the Department of Science & Technology (DST), Government of India. This lab is equipped with high end workstations and software & hardware modules with which complex applications can be developed. Specialized application developers from NI academy train the students and faculty to enhance the practical knowledge.

### **2. Centre for Artificial Intelligence & Deep Learning under leadingindia.ai:**

Institute of Excellence - Making Deep Learning and AI skills mainstream in India to fulfill:

- Trilateral needs of entrepreneurship, Industry academia partnership and application-inspired.
- Engineering Research in partnership with Bennett University New Delhi, University College London, Brunel University London, NVIDIA, AWS Educate, Videoken and Edvantis.
- The center of excellence of AI & DL powered with Hp Z820 With Dual Xeon E5 2660/64GB RAM/2X600GB SAS 10K HDD/Quadro K6000 12GB Graphic Card. This is an efficient deep learning server to handle large datasets for training and testing.

### **3. Data science & Big data Analytics in association with DELL EMC & ICT Academy:**

- Data Science & Big Data Analytics is a learning program to understand business intelligence and business and data analytics.
- To understand the business data analysis through the powerful tools of data application.
- Learn how to apply Hadoop, HDFS, MapReduce, and get introduced in to R Language.
- Understand the methods of data mining and creation of decision tree.
- Explore different aspects of Big Data Technologies.



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#### **4. Full Stack with Virtusa:**

Virtusa announced the Center of Excellence (CoE) status for CMRCET and also mentioned that the CoE will cater the following benefits:

- Lean, mean and full stack development
- Student Level Certification
- Live Projects
- Direct Employment Opportunities
- Faculty Certifications
- Technology Conferences

#### **5. IoT Centre of Excellence:**

A research lab which helps the students in developing the projects in the area of Internet of Things and implementation of big data analytics.

#### **6. National cyber defense security resource Center:**

National Cyber Safety and Security Standards have been started with a great vision to safeguard the Nation from the current threats in the Cyberspace. National Cyber Safety and Security Standards have done an extensive research in the Cyber domain to understand the nature of cyber threats and Cyber Crimes. We have understood that the multi – faceted cyber technology cannot be handled by common standards and security policies. We came to know that, it needs different strategies for different sectors of Cyber domain.

#### **7. Centre for Innovation and Entrepreneurship (CIE)**

Centre for Innovation and Entrepreneurship (CIE) has been established at CMR College of engineering & Technology with an objective of foster and encourages entrepreneurship, commercialize technology based innovations and develop eco-system for sustainable holistic growth. CIE's mission is to promote technology entrepreneurship and support start-up incubation by utilizing the knowledge, resources and expertise of CMRCET and its partners. CIE's vision is to consistently churn out successful technology start-ups, creating new generation entrepreneurs and employment, through the world class incubation centre. CIE will involve activities around building start-up ecosystem like identifying areas of focus and market relevance, building investor relations, business partnerships, leveraging government programmes and accelerating initiatives.

#### **8. Centre for Engineering Education Research (CEER)**

Centre for Engineering Education Research (CEER) has been established at CMR College of engineering & Technology with a goal of training the students to meet dynamic needs of the society. CEER provides a platform for the students to learn various engineering concepts through service based learning, experiential learning, and project based learning. Through service and project based learning's students and staff are directly involved in the community engagement, thereby closely working with community and various community partners.

#### **9. Industry Institute Interaction Centre (IIIC)**

The Industry Institute Interaction Centre of CMRCET was established in 2016 under the Industry Institute Interaction Scheme of the Ministry of Human Resources Development, Govt. of India with sole aim to understand industrial requirements of the region and act as bridge between academia and Industry. To give industrial exposure to Faculty members and students, thus enabling them to tune their knowledge to cope with the industrial culture.



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To coordinate/ identify industrial partners for proposing 'Centre for Excellence'. To assist departments in organizing workshops, conferences and symposia with joint participation of the faculty and the industries. B.Tech. and M.Tech. Projects/dissertation work in industries under joint guidance of the faculty and experts from industry. To encourage Faculty members to use their expertise in solving the problems faced by the industries, thus creating opportunity for consultancy. To organize in-plant training for the students.

### **Seed Funding for Faculty and Students:**

#### **Minor Research Projects:**

From the beginning of the work, the Institute has motivated young faculty to conduct research. Institute contributes financial assistance to Minor Research Projects.

- Faculty and student projects supported under this category are normally projects of one semester duration and can be extended up to one year if required. Each can have a financial support in the range of Rs.5,000/- to 15,000/-
- The faculty and student may utilize the facilities, infrastructure and human resources.

#### **Major Research Projects:**

The Institute shall provide funding to certain important Major Research Projects with the prior approval from the IQAC and Board of Governors. The following are the rules for sanctioning the Major Research Projects from the Institute:

- A major project is sanctioned to a faculty member or a team of faculty members of the Institute based on the data provided in the prescribed format and merit of the project.
- Periodical progress reports, normally once in three months must be submitted for review.
- All the equipment purchased, fabricated prototypes shall be the property of the Institute.
- Student projects may be generated from Major Projects.

### **Composition of Research & Development Centre (R&D Centre)**

Research & Development Centre (R&D Centre) will have the following composition:

R&D Chairperson	: Principal
Advisory Board Members	: Deans & HODs
Convener	: Head (R&D)
Department R&D Coordinators	: One Senior Faculty from Each Department



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**OFFICE ORDER**

The Research & Development Cell of CMR College of Engineering and Technology was established in the year 2014 with the intention of providing facilities for research and development to all the students and faculty members. The R&D Cell welcomes new ideas and encourages interdisciplinary research work among the faculty and students.

The Research & Development Cell has been reconstituted with the following members for the academic year 2025-26. It is designed to serve the interests of the faculty and student community in a competitive world.

The composition of Research & Development Cell is as follows:

Sl. No	Name	Designation	Position
1	Major Dr. V.A. Narayana	Professor of CSE & Director	Chairman
2	Dr. S.Muthubalaji	Professor of EEE & Head R&D	Convenor
3	Dr. Abdul Subhani Shaik	Associate Professor of ECE	Coordinator
4	Dr. G. Devadasu	Professor of EEE & Dean Academics	Member
5	Dr. B. Premalatha	Associate Professor of ECE & Head CIE	Member
6	Dr. P.Ravi Kumar	Professor of ME & Dean FSA	Member
7	Dr. P. Raveendra Babu	Associate Professor of ECE & HoD ECE	Member
8	Dr. B.Prasad	Professor of CE & HoD CE	Member
9	Dr. S. Siva Skanda	Associate Professor of CSE & HoD CSE	Member
10	Dr. P.Ravikiran	Associate Professor of ECE	Member
11	Dr. P. Alekya	Associate Professor of MBA	Member
12	Dr. Neelima Patnaik	Associate Professor of H&S	Member
13	Mr. A. Vivekanand	Associate Professor of CSE	Member
14	Mr.J.Ranjith	Assistant professor of CSE	Member

Copy Submitted to: (1) CEO, & Secretary Garu— For your kind information

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