CMR INSTITUTE OF TECHNOLOGY

Vision: To create world class technocrats for societal needs.

Mission: Achieve global quality technical education by assessing learning environment through

- Innovative Research & Development
- Eco-system for better Industry institute interaction
- Capacity building among stakeholders

Quality Policy: Strive for global professional excellence in pursuit of key-stakeholders.

DEPARTMENT OF CSE (DATA SCIENCE)

Vision: Develop competent software professionals, researchers and entrepreneurs to serve global society.

Mission: The department of **Computer Science and Engineering (Data Science)** is committed to

- create technocrats with proficiency in design and code for software development
- adapt contemporary technologies by lifelong learning and face challenges in IT and ITES sectors
- quench the thirst of knowledge in higher education, employment, R&D and entrepreneurship

I. Programme Educational Objectives (PEOs): Engineering Graduates will

1. Pursue successful professional career in IT and IT-enabled sectors.

2. Pursue lifelong learning skills to solve complex problems through multidisciplinary-research.

3. Exhibits professionalism, ethics and inter-personal skills to develop leadership qualities.

II. Programme Outcomes (POs): Engineering Graduates will be able to

1. Apply mathematics, science, engineering fundamentals to solve complex engineering problems.

2. Identify, formulate and analyze complex engineering problems to reach substantiated conclusions.

3. Design and develop a component/system/process to solve complex societal engineering problems.

4. Design and conduct experiments to analyze, interpret and synthesize data for valid conclusions.

5. Create, select and apply modern tools, skills, resources to solve complex engineering problems.

6. Apply contextual engineering knowledge to solve societal issues.

7. Adapt modern engineering practices with environmental safety and sustainable development.

8. Apply professional code of ethics, responsibilities and norms in engineering practices.

9. Compete as an individual and/or as a leader in collaborative cross cultural teams.

10. Communicate effectively through technical reports, designs, documentations and presentations.

11. Endorse cognitive management skills to prepare project report using modern tools and finance.

12. Engage in independent and life-long learning in the broad context of technological changes.

III. Programme Specific Outcomes (PSOs): Engineering Graduates will be able to

1. Design and develop Computer-Based-Systems using Algorithms, Networks, Security, Gaming, Full Stack, DevOps, IoT, Cloud, Data Science and AI&ML.

2. Apply data analytics to solve real world problems.

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