

# 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 ELECTRONICS & COMMUNICATION ENGINEERING (ECE)

**Vision:** To become pioneer in the field of electronics & communication engineering by providing creative and innovative solutions for societal needs.

**Mission:** The department of **Electronics and Communication Engineering** is committed to

- Provide excellence in education, research and extension services.
- Provide quality education and to make the students entrepreneurs and employable.
- Learn continuously the state-of-art technologies for global excellence.

### **B.Tech. - Electronics and Communication Engineering (ECE)**

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

1. Acquire core competence for a successful professional career in the field of ECE.
2. Pursue higher education with a focus on multidisciplinary research activities.
3. Adapt entrepreneurship by engaging in lifelong learning with innovation and ethics.

**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. Identify the complex problems and develop solutions in the areas of communication, signal processing, VLSI, embedded systems, IoT and Cloud.
  2. Demonstrate proficiency in utilization of software and hardware tools along with analytical skills to arrive at appropriate solutions.
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### M.Tech. - VLSI

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

1. Pursue successful career in the field of VLSI design.
2. Pursue lifelong learning for research and innovative skills to solve problems in VLSI domain.
3. Exhibit professionalism, ethics, inter-personal skills and leadership.

**II. Programme Outcomes (POs):** Engineering Graduates will have ability to

1. Carry out investigation, research, development and solve complex problems independently.
2. Write, present and substantiate a technical report/document.
3. Demonstrate mastery in the field of VLSI.

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

1. Design fault tolerant VLSI circuits to optimize power and area requirements.
  2. Develop technically-feasible and environmentally-sustainable VLSI systems.
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