



## Modi Institute of Technology, Kota

An Engg. College Approved by AICTE & Affiliated to RTU

Branches: B.Tech- ME / EE / ECE / CS/ AI&DS&M.Tech – Digital Communication

Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,

Website: [www.mitkota.com](http://www.mitkota.com) Email: [mitkota1@gmail.com](mailto:mitkota1@gmail.com)

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## Department of Electronics and Communication Engineering

### Program Educational Objectives (PEOs)

The graduates of Electronics and Communication Engineering will:

**PEO1:** Acquire educational foundation that prepares them for professional careers / higher studies in the field of Electronics & Communication engineering.

**PEO2:** Obtain in depth knowledge of the core discipline of Electronics & Communication engineering so that they will be successful in designing new products and finding technically sound, cost effective and socially acceptable solutions to engineering problems.

**PEO3:** Utilize their knowledge, skills and resources to design, invent and develop novel technology and find creative and innovative solutions to engineering problems in a multidisciplinary work environment.

**PEO4:** Develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

**PEO5:** Possess leadership qualities and be effective communicators to work efficiently with diverse teams, promote and practice appropriate ethical practices

### Program Specific Outcomes (PSOs)

**PSO1:** Apply science, engineering, mathematics through differential and integral calculus; to solve complex electronics and communication engineering problems.

**PSO2:** Demonstrate proficiency in use of software and hardware required to practice electronics and communication profession.

### Program Outcomes (POs)

Engineering Graduates will be able to:

**PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.



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**PO2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3:** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11:** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



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**PO12:** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Mr. Vijay Varshney  
(O/C Exam)

Mr. Pankaj Jain  
HOD (First Year)

Mrs. Seema Arya  
HOD (CSE)

Mr. Jitendra Yadvendra  
HOD (EE)

Mr. Abhishek Chattri  
Dy. Registrar

Dr. Barkha Gupta  
HOD (ME)

**Dr. Vikas Soni**  
**Principal**

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.

Hon'ble Group Director Sir for kind information.

Undersigned.

HOD's & I/C's. / First Year Coordinator.

Registrar Office/NAAC Coordinator/All Member Concerned/Accountant