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 Email: mitkota1@gmail.com

Department of Electrical Engineering

Program Educational Objectives (PEOs)

The graduates of Electrical Engineering will:

1. Possess strong educational foundation in Electrical Engineering which is essential in making successful careers in Industry/ Research / Higher Education and will understand the professional responsibility in modern electrical power and energy related Industry through global and rigorous education.

2. Possess technical competence in the fields of Electrical engineering and allied disciplines and will be successful for the execution of engineering solutions which are technically sound and environment friendly.

3. Utilize their broad 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.

4. Be professional with leadership qualities, effective communication skills, ethical attitude and competence to excel individually and work efficiently.

5. Possess attitude to learn and adopt new technologies as it evolves and be lifelong learners.

Mr. Vijay Varshney   Mr. Pankaj Jain   Mrs. Seema Arya
(O/C Exam)   HOD (First Year)   HOD (CSE)

Mr.JitendraYadvendra   Mr. Abhishek Chattri   Dr.Barkha Gupta
HOD (EE)   Dy. Registrar   HOD (ME)

Dr. VikasSoni
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

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Department of Electrical Engineering

Program Specific Outcomes (PSO)

The followings are the Program Specific Outcome

1. Apply science, engineering, mathematics through differential and integral calculus, complex variables to solve electrical engineering problems.

2. Demonstrate proficiency in use of software and hardware to be required to practice Electrical engineering profession.

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Department of Electrical Engineering

Program Outcomes (POs)

Engineering Graduates will be able to:

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

2. **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.

3. **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.

4. **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.

5. **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **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.

7. **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.

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

9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large such as, being able to comprehend and write

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effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **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.

12. **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.

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