



# Modi Institute of Technology, Kota

An Engg. College Approved by AICTE & Affiliated to RTU  
Branches: **B.Tech**- ME / EE / ECE / CSE / AI &DS & **M.Tech** – Digital Communication  
Nayagaon, Rawatbhata Road, P.O. Borabas, Kota – 324010; Tel.:7665439788;  
Website: [www.mitkota.com](http://www.mitkota.com) Email: [mitkota1@gmail.com](mailto:mitkota1@gmail.com)

## Department of Mechanical Engineering

### Program Educational Objectives (PEOs)

The graduates of Computer Science and Engineering will be able:

1. To develop the potential to resolve diverse and complex real world problems across a broad range of design and production via collaboration and innovation.
2. To expand the understanding of science and engineering through fundamental and practical research and share that technical knowledge in academic publications, workshops and conferences.
3. To elevate understanding and awareness of societal issues, as well as to foster a sense of commitment to the community and profession through active participation.

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:-

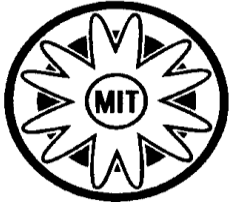
Hon'ble Vice-Chairman Sir for kind information.

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



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## Department of Mechanical Engineering

### Program Specific Outcomes (PSOs)

The followings are the Program Specific Outcomes:

1. Develop attitude to accept global challenges and apply modern tools and techniques in the field of mechanical and allied engineering.
2. An ability to build the nation by imparting technological and multidisciplinary knowledge of product design, manufacturing and material science, thermal engineering and humanities to become Technocrats and Entrepreneurs.
3. Attain managerial skills to work effectively in a team as a member or as a leader with Ethical and Environmental practices.

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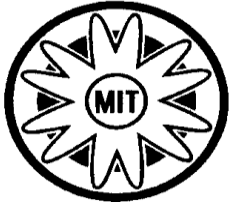
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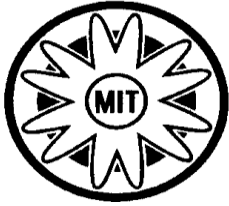
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## Department of Mechanical Engineering

### 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.



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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 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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