



Vision & Mission of the Institute



VISION

To achieve excellent standards of quality education by keeping pace with rapidly changing technologies and create technical manpower of global standards with capabilities of accepting new challenges.

MISSION

Our efforts are dedicated to impart quality and value based education to raise satisfaction level of all stake-holders. Our strength is directed to create competent professionals. Our endeavour is to provide all possible support to promote research and development activities.

VISION AND MISSION OF DEPARTMENT OF MECHANICAL ENGINEERING

Vision

To be recognized internationally for quality education and research in mechanical engineering with excellence in the fields of design, manufacturing and thermal sciences.

Mission

To prepare professionally competent and broadly educated mechanical engineers by developing analytical and research abilities, encouraging culture of continuous learning and by adopting new technologies to solve complex problems.

DEPARTMENT OF MECHANICAL ENGINEERING

Programme Educational Objectives

The educational objectives of the mechanical engineering programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of mechanical engineering causes and to accommodate the needs of the profession. The mechanical engineering department is dedicated to graduating mechanical engineers who:

1. Shall practice mechanical engineering in the general disciplines of design, thermal and manufacturing engineering in industry and establishments in government and private sectors.
2. Shall apply fundamental technical knowledge and skills to find workable solutions to technological challenges and problems in various areas of mechanical engineering.
3. Shall pursue advanced education, research and development, and creative efforts in mechanical engineering and allied areas of science and technology.
4. Shall practice mechanical engineering in a responsible, professional and ethical manner for the benefit of the industry and society.

List of Programme Outcomes (POs)

The programme is targeted at developing the following competencies, skills and abilities amongst students. They shall be able to:

1. Acquire knowledge in the discipline of mechanical engineering, apply fundamentals of mathematics, engineering and sciences and apply technologies to solve complex problems in inter and cross disciplinary areas.
2. Search out relevant technical information, use analytical tools to formulate problems and identify workable solutions.
3. Design mechanical systems, components, or processes to meet their performance needs from considerations of public health and safety as well as cultural, societal, and environmental issues.
4. Engage in R & D pursuits, set up and conduct experiments, analyze and interpret data using tools, techniques and instrumentation in mechanical engineering and interdisciplinary area.
5. Identify, formulate and solve mechanical engineering problems using modern design and manufacturing approaches and computational and software tools.
6. Understand the responsibilities associated with the use of technology & processes on societal & legal issues of concern in respect of health, safety and culture.
7. Understand contemporary issues in sustainable development and in providing technology solutions considering impact of economic, social, political, environmental and global issues.
8. Understand ethical and professional issues and responsibilities in engineering practice, creative enterprise, loyalty and commitment.
9. Communicate effectively in written, oral and graphical forms, provide instructions and present the results in a professional manner.
10. Possess knowledge of management principles, project management and finance, engineering materials, processes and systems working to function effectively, as a member or team leader, in executing mechanical engineering projects under diverse and multidisciplinary environments.
11. Develop ability to engage in lifelong learning, adapt new developments and participate in continuing education opportunities to remain active in the profession and foster personal and organizational growth.