

Prof. Ram Meghe Institute of Technology and Research, Badnera
Department of Mechanical Engineering
Programme Educational Objectives (PEO)

1. **Preparation:** To strive for overall personality development of students so as to nurture not only quintessential technocrats but also responsible citizens and to steer the organization towards becoming a pace setting centre of excellence.

The scheme of Mechanical Engineering is designed considering the important fields of study and market requirement. This structure is a unique combination of Basic sciences, humanities and core competency. The various subjects are introduced at various levels considering the prerequisites of the subjects as well as skill level of the students.

2. **Core Competence:** To educate students with the fundamentals of engineering sciences, basic Mechanical engineering, mechanical design and analysis to improve their overall engineering skills so that graduates will be able to design mechanical systems containing functionality, aesthetics, safety, cost effectiveness and sustainability.
3. **Breadth:** To impart students with the skills for the design, improvement and installation of integrated systems of Man, material and machine for the social & national cause.
4. **Professionalism:** To inculcate the value systems & ethics, leadership and team work skills, bring holistic development of personality and to promote entrepreneurial thinking among students.
5. **Learning environment:** Democratic learning environment that develops confidence and stimulates innovative thinking for successful professional career.
6. **Creating a Dream:** To make every student dream. Dream about a government /private sector job or dream about higher studies or dream about becoming an entrepreneur.
7. **Employment avenues:** As per the fast changing global trend and demand, to make the students aware and assist for offering employment in various sectors.

Programme Outcomes

- a. An ability to apply knowledge of mathematics, science, and engineering.
- b. An ability to design and conduct experiments as well as to analyze and interpret data.
- c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- d. An ability to function on multidisciplinary teams.
- e. An ability to identify, formulate and solve engineering problems.
- f. An understanding of professional and ethical responsibilities.
- g. An ability to communicate effectively.
- h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
- i. The recognition of the need for and an ability to engage in life-long learning.
- j. The knowledge of contemporary issues.
- k. An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.