

**ADDENDUM
REGULATION -2013
DEPARTMENT OF MECHANICAL ENGINEERING**

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

1. To Prepare Students to become better in Mechanical Engineering Profession.
2. To Provide Students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve industrial and societal problems.
3. To develop students with academic excellence and leadership qualities for a successful professional carrier.
4. To inculcate students with professional and ethical attitude, effective communication skills, Team work skills and also develop innovative products and provide solutions for the real life problems.

PROGRAM OUTCOMES (POS):

The Mechanical Engineering programme demonstrates the following Programme Outcomes will be able to:

- a. **Engineering knowledge:** Graduates will demonstrate knowledge of mathematics, science and engineering.
- b. **Problem analysis:** Graduates will demonstrate ability to identify, formulate and solve engineering problems.
- c. **Design/development of solutions:** Graduates will demonstrate ability to experiment, analyze and interpret data with appropriate considerations for the public health and safety, and the cultural, societal and environmental considerations.
- d. **Conduct investigations of complex problems:** Graduates will be able to 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.
- e. **Modern tool usage:** Graduates will demonstrate skills to use modern engineering tools, software and equipments to analyze multidisciplinary problems.
- f. **The engineer and society:** Graduates will demonstrate develop innovative products and provide solutions for the real life problems to the society.
- g. **Environment and sustainability:** Graduates will demonstrate the impact of engineering solutions to sustainable developments.
- h. **Ethics:** Graduates will demonstrate knowledge of Mechanical engineering professional and ethical responsibilities.
- i. **Individual and team work:** Graduates will demonstrate to develop students with academic excellence and leadership qualities for a successful professional career.
- j. **Communication:** Graduates will communicate effectively their technical knowledge.
- k. **Project management and finance:** Graduates will demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.
- l. **Life-long learning:** Graduates will develop ability for life-long learning in the broadest context of technological change.