

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)
AND
PROGRAM OUTCOMES (POs)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS) :

To be a globally renowned university, as per our vision, we need to produce quality products (graduates) into the market who have potential strengths to meet all the professional and personal challenges prevailing at global levels and who can serve in all the possible positions of their respective job domains and contribute towards holistic growth of their respective employment providers as well as the nation, world. The graduates must also possess cutting edge R&D skills in their domain areas.

This, is exactly what has been framed into the University's Mission and thereby the Mission has converged into the following **Program Educational Objectives (PEOs)** which are best suited to Undergraduate Engineering programs, and are those that compliment the university vision, mission.

- A. Practice engineering in a broad range of industrial, societal and real world applications.
- B. Pursue advanced education, research and development, and other creative and innovative efforts in science, engineering, and technology, as well as other professional careers.
- C. Conduct themselves in a responsible, professional, and ethical manner.
- D. Participate as leaders in their fields of expertise and in activities that support service and economic development throughout the world.

These PEOs are designed to be attained by all the graduates within 3 to 5 years of their graduation.

PROGRAM OUTCOMES(POs):

PO Number	Description
1. Engineering Knowledge	An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems in engineering
2. Problem Analysis	An ability to identify, formulate, research literature, analyze complex engineering problems in mechanical engineering using first principles of mathematics, natural sciences and engineering sciences
3. Design/ development of solutions	An ability to design solutions for complex engineering problems and system component or processes that meet the specified needs considering public health & safety and cultural, societal & environment
4. Conduct investigations of complex problems	An ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to obtain solutions to engineering problems
5. Modern tool usage	Ability to create, select and apply appropriate techniques, resources and modern engineering activities, with an understanding of the limitations

PO Number	Description
6. The engineer and society	Ability to 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	Ability to demonstrate the knowledge of engineering solutions, contemporary issues understanding their impacts on societal and environmental contexts, leading towards sustainable development
8. Ethics	An ability to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice
9. Individual and team work	An ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings
10. Communication	Ability to communicate effectively oral, written reports and graphical forms on complex engineering activities
11. Project management and finance	Ability to demonstrate knowledge and understanding of the engineering and management principles and apply those one's own work, as a member and leader in team, to manage projects and in multi-disciplinary environments
12. Lifelong learning	An ability to recognize the need for and having the preparation and ability to engage independent and life-long learning in broadest context of technological change

PROGRAMME SPECIFIC OUTCOMES (PSOs)

Civil Engineering	
PSO 1	Function as design consultants in construction industry for the design of civil engineering structures.
PSO 2	Provide sustainable solutions to the Civil Engineering Problems.