

The Program Educational Objectives (PEOs) are intended to prepare graduates professionally eligible after completion of their graduation. The purpose of PEOs are to prepare graduates to possess the ability to :

**PEO-1:** Apply their Engineering knowledge and up-to-date skills to assume positions of technical leadership in performing Professional work in Electrical and Electronic Engineering either individually or through interdisciplinary teams.

**PEO-2:** Pursue their career through post-graduate education or professional activity and engage themselves in independent and life-long learning in the broadest context of technological change.

**PEO-3:** Develop Electrical and Electronics Engineering solutions, maintaining high ethical standard and considering design criteria, realistic constraints, economic, environmental and social impact of the solutions.

**PEO-4:** Work either individually or through interdisciplinary teams and communicate effectively using graphic, verbal and written techniques to explain and defend their solutions to technical and non-technical audiences.

- Mapping between Mission Vs PEOs

PEOs		Mission-1	Mission-2	Mission-3	Mission-4
PEO 1		√	√		√
PEO 2				√	√
PEO 3			√		√
PEO 4				√	√

- Program Outcomes (POs)**

Program outcomes are mainly focused on developing the students in terms of skills, knowledge and behavior during their graduation period. There are 12 POs for the engineering students which are listed below.

POs	Knowledge	Description
PO 1	<b>Engineering Knowledge</b>	Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO 2	<b>Problem Analysis</b>	Identify, formulate, research literature and analyze complex engineering problems searching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO 3	<b>Design/ development of solutions</b>	Design solutions for complex engineering problems and design systems, components and processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
PO 4	<b>Investigation</b>	Conduct investigations of complex problems using research based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
PO 5	<b>Modern Tool Usage</b>	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.
PO 6	<b>The Engineer and Society</b>	Apply reasoning informed by contextual knowledge to assess the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
PO 7	<b>Environment and Sustainability</b>	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
PO 8	<b>Ethics</b>	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
PO 9	<b>Individual and Team work</b>	Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
PO 10	<b>Communication</b>	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.
PO 11	<b>Project Management and Finance</b>	Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and multidisciplinary environments.
PO 12	<b>Lifelong learning</b>	Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context to technological change.
PO 7	<b>Environment and Sustainability</b>	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

• Mapping between PEOs Vs POs

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POs	Knowledge	PEO 1	PEO 2	PEO 3	PEO 4
PO 1	Engineering Knowledge	√			
PO 2	Problem Analysis		√		
PO 3	Design/ development of solutions	√		√	
PO 4	Investigation		√		
PO 5	Modern Tool Usage	√	√		
PO 6	The Engineer and Society			√	
PO 7	Environment and Sustainability			√	
PO 8	Ethics			√	
PO 9	Individual and Team work				√
PO 10	Communication				√
PO 11	Project Management and Finance				√
PO 12	Lifelong learning		√		√