



**DEPARTMENT OF ELECTRICAL ENGINEERING
UNIVERSITY OF ENGINEERING AND TECHNOLOGY
PESHAWAR, PAKISTAN**

PROGRAM MISSION

“To produce competent electrical engineers who can efficiently fulfill professional responsibilities in industrial, academic and research organizations.”

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The graduates of the program of Bachelor of Electrical Engineering will be equipped with skills to demonstrate an understanding of key technologies applicable within the main areas of Electrical and Electronic Engineering. The main objectives of this program are to produce engineers with:

Program Educational Objectives (PEOs)	Description
PEO-1	The graduates will serve competently in national and international industry or academia by showing requisite knowledge and skills in the field of Electrical Engineering.
PEO-2	The graduates will exhibit quest for learning and professional growth through interpersonal and management skills.
PEO-3	The graduates will demonstrate commitment to ethical practices, community service and societal contribution.

PROGRAM LEARNING OUTCOMES (PLOs)

At the end of this program, the students are expected to have the ability to:

PLO-1	Engineering Knowledge	An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PLO-2	Problem Analysis	An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PLO-3	Design/Development of Solutions	An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.



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PLO-4	Investigation	An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
PLO-5	Modern Tool Usage	An ability to 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.
PLO-6	The Engineer and Society	An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
PLO-7	Environment & Sustainability	An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
PLO-8	Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
PLO-9	Individual and Teamwork	An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.
PLO-10	Communication	An ability to communicate effectively, orally as well as in writing, 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.
PLO-11	Project Management	An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.
PLO-12	Lifelong Learning	An ability to recognize importance of and pursue lifelong learning in the broader context of innovation and technological developments.



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MAPPING BETWEEN PROGRAM EDUCATIONAL OBJECTIVES AND LEARNING OUTCOMES

The following table demonstrates relationship and mapping between the defined Program Educational Outcomes (PEOs) and the Program Learning Outcomes (PLOs).

S. No.	Program Learning Outcomes (PLOs)	Program Educational Objectives (PEOs)		
		PEO-1	PEO-2	PEO-3
1	Engineering Knowledge	✓		
2	Problem Analysis	✓		
3	Design/Development of Solutions	✓		
4	Investigation	✓		
5	Modern Tool Usage	✓		
6	The Engineer and Society			✓
7	Environment & Sustainability			✓
8	Ethics			✓
9	Individual and Teamwork		✓	
10	Communication		✓	
11	Project Management		✓	
12	Lifelong Learning		✓	