

POs and PSOs of B.Tech of the Department of Electrical and Electronics

The Program Outcomes(POs) as specified by NBA.

POs		Program Outcome (PO) Description
PO1	Engineering knowledge	Apply the knowledge of mathematics, science and the fundamentals of Electrical and Electronics Engineering to the solution of complex engineering problems.
PO2	Problem analysis	Identify, formulate, refer literature and analyze complex engineering problems reaching appropriate conclusions using first principles of mathematics and engineering sciences.
PO3	Design/development of solutions	Compose solutions for complex engineering problems and develop system components or processes that meet the specified needs of societal and environmental considerations including public health and safety.
PO4	Conduct investigations of complex problems	Use research-based knowledge and innovative methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
PO5	Modern tool usage	Create, select and apply appropriate techniques, resources and modern engineering and software tools including modeling to complex engineering activities with an understanding of constraints.
PO6	The engineer and society	Apply reasoning based on contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability	Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge and the need for sustainable development.
PO8	Ethics	Understand ethical responsibilities and apply ethical principles in engineering practices.
PO9	Individual and team work	Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.
PO10	Communication	Communicate effectively on complex engineering activities with the engineering community and with the society at large including delegation of instructions, effectual presentation, efficient documentation and effective comprehension.
PO11	Project management and finance	Apply engineering management principles to one's own work in a team and manage projects in multidisciplinary environments.
PO12	Life-long learning	Recognize the need for independent and life-long learning in the broadest context of technological change and the readiness to engage in it.

The Program Specific Outcomes(PSOs) of B.Tech 2015 scheme of APJAKTU.

PSO	Program Specific Outcomes(PSO) Description
PSO1	Identify, analyze and solve real-life problems by applying the knowledge in Electrical and Electronics Engineering.
PSO2	Design and develop electrical systems and intelligent tools to excel in the field of Electrical and Electronics engineering with an aspire to become a brand name in industry and society.
PSO3	Find solutions to global issues faced by the society through engineering and technology innovations by upholding professional ethics and social values.

The Program Specific Outcomes(PSOs) of B.Tech 2019 scheme of APJAKTU.

PSO	Program Specific Outcomes(PSO) Description
PSO1	Develop sustainable engineering solutions in the field of Renewable Energy and e-mobility through collaborative learning.
PSO2	Develop intelligent electrical systems using Machine Learning for Power System and Power Electronic applications.

