

ARUNAI ENGINEERING COLLEGE

ECE-PROGRAMME OUTCOME

Programme outcomes (POs) describe what Students are expected to know and be able to achieve by the time of Graduation. These relate to the: Skills, Knowledge and Behaviours that Student attain as they progress through the programme.

PO1. **(Engineering Knowledge)** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the conceptualization of engineering models.

PO2. **(Design, Development and Problem Analysis)** Identify, formulate, research literature and solve complex engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.

PO3. **(Design of System Process And Components)** 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.

PO4. **(Multi-disciplinary Teams)** Conduct investigations of complex problems including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO5. **(Solving Engineering Problems)** Create, select and apply appropriate techniques, resources, and modern engineering tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.

PO6. **(Professional Ethics)** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO7. **(Communication Skills)** 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.

PO8. **(Environment and Sustainability)** Demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering practice.

PO9. **(Lifelong learning)** Understand and commit to professional ethics and responsibilities and norms of engineering practice.

PO10. **(Contemporary Issues)** Understand the impact of engineering solutions in a societal context and demonstrate knowledge of and need for sustainable development.

PO11. **(Modern Tools Usage)** Demonstrate a knowledge and understanding of management and business practices, such as risk and change management, and understand their limitations.

PO12. **(Multibody Dynamics)** An ability to work on multibody dynamics software in order to gain knowledge on system level simulation.