**PROGRAM EDUCATION OBJECTIVES- PEOs**

1. Improve the ability to work effectively within a team and apply the analytical decision-making and prediction skills to solve complex computational problems.
2. Promote continuous self-learning to enhance knowledge through certifications, higher studies and research in advanced areas of Artificial Intelligence and Data Science.
3. Inculcate the students with ethical and moral values to establish themselves as socially responsible engineers.

## PROGRAM OUTCOMES –POs

PO1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3. Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems:

PO5. Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6. The Engineer and Society: 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.

PO7. Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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 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.

PO11. Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

## PROGRAM SPECIFIC OUTCOMES – PSOs

Graduates will be able to:

1. Work proficiently in multidisciplinary fields with expertise in Artificial Intelligence, Machine learning, Data Science and Analytics.
2. Communicate effectively with presentations, reports and outclass themselves as a member for managing a team along with leadership qualities.
3. Understand and analyze real world technical problems and apply the latest technologies to develop feasible and viable solutions.