

Program Educational Objectives (PEOs)

PEO1: Graduates will establish successful careers in Artificial Intelligence, Machine Learning, Data Science, and allied domains through strong technical competence and professional skills.

PEO2: Graduates will pursue higher education, research, and innovation in emerging areas of AI & ML to contribute to technological advancement.

PEO3: Graduates will demonstrate leadership, teamwork, ethical responsibility, and effective communication in multidisciplinary and multicultural environments.

PEO4: Graduates will exhibit entrepreneurial mindset and engage in lifelong learning to address societal and industrial challenges.

Program Outcomes (POs)

(Aligned with NBA Graduate Attributes)

PO1 – Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and AI & ML specialization to solve complex engineering problems.

PO2 – Problem Analysis: Identify, formulate, and analyze complex computing problems using principles of Artificial Intelligence and Machine Learning.

PO3 – Design/Development of Solutions: Design intelligent systems and AI-driven solutions that meet specified needs with consideration for public health, safety, and sustainability.

PO4 – Conduct Investigations: Use research-based knowledge and experiments, including data analysis and interpretation, to provide valid conclusions.

PO5 – Modern Tool Usage: Select and apply appropriate AI/ML tools, frameworks, and computing platforms with understanding of their limitations.

PO6 – Engineer and Society: Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 – Environment & Sustainability: Understand the impact of AI technologies on society and environment and promote sustainable development.

PO8 – Ethics: Apply ethical principles and commit to professional ethics and responsibilities in AI system development.

PO9 – Individual & Team Work: Function effectively as an individual and as a member/leader in diverse teams.

PO10 – Communication: Communicate effectively on complex engineering activities with technical and non-technical audiences.

PO11 – Project Management & Finance: Demonstrate knowledge of engineering management principles and apply them to manage AI-based projects.

PO12 – Life-long Learning: Recognize the need for independent learning in emerging AI technologies and adapt to technological changes.

Program Specific Outcomes (PSOs)

PSO1: Develop intelligent systems using Machine Learning, Deep Learning, Data Analytics, and AI frameworks to solve real-world problems.

PSO2: Design and deploy AI-driven applications in domains such as Computer Vision, Natural Language Processing, Robotics, Cyber Security, Healthcare, and Smart Systems.

PSO3: Apply data engineering, model optimization, cloud computing, and deployment strategies for scalable and efficient AI solutions.