



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI)

Program Outcomes (POs) :

1. Engineering Knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and computer science, including artificial intelligence, to solve complex engineering problems.

2. Problem Analysis:

Identify, formulate, and analyze complex computing and AI-related problems using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/Development of Solutions:

Design system components, processes, or programs that meet desired needs with appropriate consideration for public health, safety, cultural, societal, and environmental aspects.

4. Conduct Investigations of Complex Problems:

Use research-based knowledge and methods including experiment design, data analysis, and synthesis of information to provide valid conclusions.

5. Modern Tool Usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and AI tools for prediction, modeling, and solving complex engineering problems.

6. The Engineer and Society:

Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal, and cultural issues and their responsibilities relevant to AI-based engineering practice.

7. Environment and Sustainability:

Understand the impact of professional engineering solutions, especially AI applications, in societal and environmental contexts, and demonstrate knowledge for sustainable development.

8. Ethics:

Apply ethical principles and commit to professional ethics, responsibilities, and norms of AI and computing practice.

9. Individual and Team Work:

Function effectively as an individual and as a member or leader in diverse teams and multidisciplinary settings.

10. Communication:

Communicate effectively on complex engineering and AI-related activities with the engineering community and society at large, through reports, documentation, and effective presentations.

11. Project Management and Finance:

Demonstrate knowledge and understanding of AI project management principles and apply them to manage projects in multidisciplinary environments.

12. Life-long Learning:

Recognize the need for and have the ability to engage in independent and life-long learning in the broad context of technological changes, especially in Artificial Intelligence.

Program Educational Outcomes:

PEO1- To provide the graduates with solid foundation in Computer Science and Engineering along with the fundamentals of Mathematics and Sciences with a view to impart in them high quality technical skills like modelling, analysing, designing, programming and implementation with global competence and helps the graduates for life-long learning.

PEO2- To prepare and motivate graduates with recent technological developments related to core subjects like Programming, Databases, Design of Compilers and Network Security aspects and future technologies so as to contribute effectively for Research & Development by participating in professional activities like publishing and seeking copy rights.

PEO3- To train graduates to choose a decent career option either in high degree of employability/Entrepreneur or, in higher education by empowering students with ethical administrative acumen, ability to handle critical situations and training to excel in competitive examinations. **PEO4-** To train the graduates to have basic interpersonal skills and sense of social responsibility that paves them a way to become good team members and leaders.

Program Specific Outcomes:

PSO1- Understanding Human Cognition, Artificial Intelligence, Data Engineering and Machine Learning for designing Intelligent Systems.

PSO2- Apply computational knowledge and skills to provide innovative solutions to solve problems in AI & ML.