MAHAGURU INSTITUTE OF TECHNOLOGY
Affiliated to the APJ Abdul Kalam Technological University , Thiruvananthapuram
Approved by AICTE , New Delhi and Accredited by NAAC
Accredited by NBA
For CSE

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

PROGRAMME EDUCATIONAL OBJECTIVES

1. **PEO1**: The graduates will identify complex computing problems,analyze them,and formulate solutions using strong engineering fundamentals and modern computing practices
2. **PEO2**: The graduates will possess the ability to apply the principles of Artificial Intelligence And Machine Learning to design and implement the latest technology-driven projects in any Application sector,catering to industry needs.
3. **PEO3**: The graduates will portray strong ethical values and spirit of social commitment.

PROGRAMME SPECIFIC OUTCOMES

1. **PSO1:** Ability to apply the computational knowledge and algorithmic principles of Artificial Intelligence and Machine Learning to device optimal solutions to complex computational Problems through the development of innovative AI based applications.
2. **PSO2**: Ability to acquire knowledge to identify real world research problems and skills for Successful career,entrepreneurship and higher studies.

PROGRAMME OUTCOMES

1. **Engineering knowledge**: Apply the knowledge of mathematics &, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.

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4. **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.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **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.

7. **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.

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

9. **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **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.

11. **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.

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