COIMBATORE INSTITUTE OF TECHNOLOGY

(Government Aided Autonomous Institution Affiliated to Anna University, Chennai)

COIMBATORE - 641 014, TAMILNADU, INDIA

DIAMOND JUBILEE

(1956 - 2016)

Department of Artificial Intelligence & Machine Learning

M.Sc. Artificial Intelligence and Machine Learning

Curriculum and Syllabi

Under Choice Based Credit System

(For the students admitted during 2019 - 20 and onwards)

COIMBATORE INSTITUTE OF TECHNOLOGY

(Government Aided Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Our Graduates will:

PEO 1: Develop software solutions demonstrating intelligent behaviour, handling uncertainty, constantly learning and effectively using domain knowledge

PEO 2: Promote research in intelligent technology and concepts

PEO 3: Participate in life-long learning for effective professional growth and demonstrate leadership qualities to co-ordinate cooperative team in contributing for the betterment of the society.
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PROGRAMME OUTCOMES (POs)

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Graduates of the Programme would be able to:

PO1: Apply skills and concepts of computer science to abstract, design and code computing models and software solutions, from requirements of a problem.

PO2: Ability to analyze real world problems, customer requirements from the perspective of developing software of good quality.

PO3: Analyse, design, develop and implement software solutions that meet requirements and can evolve to meet changes in the requirements.

PO4: Apply mathematical and statistical models to explore and analyze the massive amount of data in various domains.

PO5: Use techniques, skills and tools of both hardware and software including (but not limited to) programming languages, operations research, data storage, decision theory, knowledge representation, visualization,privacy, security to develop scalable techniques for software programming, data analysis, and design.

PO6: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO7: Recognize the need for, and have the ability to engage in independent and life-long learning.

PO8: Design and develop Artificial Intelligence and Machine Learning (AIML) systems for analysing the varied, voluminous data in fields of medicine, business, geosciences, legal, scientific research and other domains.

PO9: Recognize the importance of innovation and develop a critical and research thinking approach to develop leading innovative intelligent software products.

PO10: Recognize social, professional, cultural, humane and ethical values and issues involved in the use of software technology and consider these adequately in developing and deploying systems.

PO11: Communicate effectively, information both domain and technical with decision makers and team members, to derive software systems of high quality.

PO12: Be self-motivated and enhance self-learning as well as capability to adapt to emerging technologies and create innovative solutions for challenging issues of society, engineering and education as part of an organization or as an entrepreneur.