

CSP310: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING LAB

Hours/Week: 6

I.A. Marks: 30

Credits: 3

Exam. Marks: 70

Course Learning Objectives: Students will try to learn,

1. To introduce basic machine learning techniques.
2. To develop the skills in using recent machine learning software for solving practical problems in high-performance computing environment.
3. To develop the skills in applying appropriate supervised, semi-supervised or unsupervised learning algorithms for solving practical problems.
4. Identify innovative research directions in Artificial Intelligence, Machine Learning and Big Data analytics.

Course Outcomes: After completing the course, the students will be able to,

CO1: Students will demonstrate the ability to solve problems collaboratively

CO2: Students will demonstrate knowledge of artificial intelligence concepts

CO3: An understanding of fundamental concepts and methods of machine learning, statistical pattern recognition and its applications.

CO4: An ability to analyze and evaluate simple algorithms for pattern classification.

CO5: An ability to design simple algorithms for pattern classification, code them with Python programming language and test them with benchmark data sets.

CO6: Practically establish, refine and implement strategies to take the idea in to students and faculty fraternity.

CO7: Practice sustainable funding models for GRIET and related efforts

