Department of Mechatronics Engineering

Course Name: Artificial Intelligence & Machine Learning
Class: TE Mechatronics Engineering
Course Code: 317552 (2019 Course)

Course Objectives:

1. ACQUAINT with fundamentals of artificial intelligence and machine learning.

2. LEARN feature extraction and selection techniques for processing data set.

3. UNDERSTAND basic algorithms used in classification and regression problems.

4. OUTLINE steps involved in development of machine learning model.

5. FAMILIARIZE with concepts of reinforced and deep learning.

6. IMPLEMENT AND ANALYZE machine learning model in mechanical engineering problems.

Course Outcomes:

On completion of the course, learner will be able to

CO1. DEMONSTRATE fundamentals of artificial intelligence and machine learning.

CO2. APPLY feature extraction and selection techniques.

CO3. APPLY machine learning algorithms for classification and regression problems.

CO4. DEVISE AND DEVELOP a machine learning model using various steps.

CO5. EXPLAIN concepts of reinforced and deep learning.

CO6. SIMULATE machine learning model in mechanical engineering problems.