DMX5315 Artificial Intelligence

Level	5
Course Code	DMX5315
Course Title	Artificial Intelligence
Credit value	3
Core/Optional	Core
Course Aim/s	Aim of this course is to provide the fundamental theory and concepts of computational intelligence methods and their applications in the area of machine intelligence.
Course Learning Outcomes (CLO):	At the completion of this course student will be able to: CLO1: identify the different artificial intelligent systems CLO2: Demonstrate basic mathematical elements of the theory of fuzzy sets. CLO3: Demonstrate an insight into fuzzy inference applications in the area of control and robotics. CLO4: Use various knowledge representation methods and different expert system structures from the industrial engineering point of view. CLO5: Apply AI techniques of expert knowledge in problem solving in the expert's domain. CLO6: Design and train various types of neural networks with a sound knowledge of concepts of neural networks.
Content	**Outline Syllabus:** Unit 1: Introduction to artificial intelligent Unit 2:Fuzzy logic systems Unit 3: Expert systems Unit 4: Neural networks **Laboratory Work:** Simulation of fuzzy logic system Simulation of neural network **Mini Project** Develop artificial intelligent system for a given system