DMX7306 Intelligent Control Systems

Level	7
Course Code	DMX7306
Course Title	Intelligent Control Systems
Credit value	3
Core/Optional	Core
Course Aim/s	Aim of this course is to provide the theory and applications of intelligence controllers in the area of machine intelligence.
Course Learning	At the completion of this course student will be able to:
Outcomes (CLO):	CLO1: identify the different artificial intelligent systems
	CLO2: Demonstrate the knowledge of fuzzy neural network system modelling.
	CLO3: Design of fuzzy neural network control systems.
	CLO4: Apply fuzzy neural network techniques to solve control engineering problems.
Content	Outline Syllabus:
	Unit 1: Fuzzy system modelling
	Unit 2: Fuzzy control system
	Unit 3: Neural Networks Unit 4: Fuzzy neural networks
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	Laboratory Work:
	1 .Stability analysis of SISO control system
	2. Stability analysis of SIMO control system
	3. Stability analysis of MIMO control system
	Mini Project:
	Develop intelligent controller for a given system