

Semester	Code	Module Title	Credits	C/E/O	GPA/NGPA
7,8	MA4144	Neural Networks and Fuzzy Logic	3	E	GPA
Hours/Week		Pre-requisites/Co-requisites	Evaluation (%)		
Lecture	Tute/Lab		CA	WE	
3	0	MA1014	30	70	
Learning Outcomes					
<p>After the successful completion of this course students should be able to</p> <ul style="list-style-type: none"> • Understand the principles of neural networks and fuzzy logic • Identify different types of neural network models • Apply the theories in practical applications 					
Syllabus Outline					
<ul style="list-style-type: none"> • Neuron physiology, Artificial Neural Networks (ANN) concepts: Topologies, learning algorithms • Neural network paradigms: McCulloch-Pitts model, ADALINE and MADALINE models, Hopfield model, associative memory, competitive learning model, real-time model, Probabilistic Neural Network. • Fuzzy logic, Fuzzy set theory, temporal fuzzy logic, fuzzy neural networks. 					