	18CSOE09	SOFT COMPUTING	L	Т	Р	(
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Course O	bjectives:					<u> </u>
1. To	learn the basic concepts of Soft Compu	uting				
2. To	become familiar with various technique	es like neural networks, genetic algorithms a	nd fuzz	y sy:	sten	ıs.
3. To	apply soft computing techniques to solv	ve problems.				
UNIT I	INTRODUCTION TO SOFT COMPUTI	ING		9	+	_ (
Programm		Networks-Fuzzy Systems-Genetic Algorithm fication of ANNs-McCulloch and Pitts Neuro Adaline Network-Madaline Network.				
UNIT II	ARTIFICIAL NEURAL NETWORKS			9	+	C
Introduction Membersh	nip Functions -Defuzzification - Fuzz	d Fuzzy Sets – Classical Relations and zy Arithmetic and Fuzzy Measures-Fuzzy	-			าร
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Cou	Course Outcomes:				
Upo	n completion of this course, the students will be able to:				
CO	Apply suitable soft computing techniques for various applications and integrate various soft computing techniques for complex problems.				
Tex	Text Books:				
1.	N.P.Padhy, S.P.Simon, "Soft Computing with MATLAB Programming", Oxford University Press, 2015.				
2.	S.N.Sivanandam , S.N.Deepa, "Principles of Soft Computing", Wiley India Pvt. Ltd., 2nd Edition, 2011.				
3.	S.Rajasekaran, G.A.Vijayalakshmi Pai, "Neural Networks, Fuzzy Logic and Genetic Algorithm, Synthesis and Applications ", PHI Learning Pvt. Ltd., 2017.				
Ref	Reference Books:				
1.	Jyh-Shing Roger Jang, Chuen-Tsai Sun, Eiji Mizutani, —Neuro-Fuzzy and Soft Computing, Prentice-Hall of India, 2002				
2.	KwangH.Lee,—FirstcourseonFuzzyTheoryandApplications,Springer,2005.				
3.	GeorgeJ.KlirandBoYuan,—FuzzySetsandFuzzyLogic-TheoryandApplications, Prentice Hall,1996.				
4.	JamesA.FreemanandDavidM.Skapura,—NeuralNetworksAlgorithms, Applications, and Programming Techniques, Addison Wesley,2003.				