Course Name	SOFT COMPUTING		Course Code	COMP – 556		
Credit	2		Contact Hours	Theory	Lab	Total
Hours				2		2
Offered as	University Requirement College Requirement Program Requirement Core Elective					
	☐ ITEC ☐ COMP ☐ CNET					
Level	10		Prerequisite	NONE		
Course Description: This course covers the concepts of Soft Computing. It includes soft and hard computing, characteristics of Soft computing, neural network architectures, fuzzy logic, fuzzy sets, operation on fuzzy sets, genetic algorithm, hybrid systems, and applications of soft computing. Students will use their critical thinking to solve problems. Upon completion, the student will be able to: Discuss the soft computing techniques and their application Explain the differences between soft computing and hard computing. Analyze various neural network architectures. Recognize the definition of fuzzy systems and their uses. Understand the genetic algorithm concepts and their applications. Select a suitable technique of soft computing to solve problems.						
Grading	Exam 1	15% Exam	2 15%	Assign	ment(s)	30%
	⊠ Final	40% Lab		Mini I	Project	
Text Book: ◆ S.N. SIVANANDAM, S.N. DEEPA, "Principles of Soft Computing", Wiley India, 2 nd Edition, ISBN 13: 9788126527410, 2011						
References: N. K. Sinha and M. M. Gupta, "Soft Computing and Intelligent Systems", ELSEVIER, 1st Edition, ISBN 13: 978-0126464900, 1999 Timothy J. Ross, "Fuzzy Logic with Engineering Applications" Wiley, 3rd Edition, ISBN 13: 978-0470743768, 2010						