SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech. I Year II Semester Regular & Supplementary Examinations July-2025
SOFT COMPUTING
(Computer Science & Engineering)

Time: 3 Hours　　　　　　　　　　　　　　　　　　　　　**Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	Explain soft computing Constituents with simple examples.	CO1	L2	12M
	OR			
2	Describe Historical sketch of Soft Computing constituents and conventional AI approaches.	CO1	L2	12M

UNIT-II

3	Illustrate the various operations on fuzzy sets and crisp sets.	CO3	L2	12M
	OR			
4	List out various membership functions used in fuzzy logic and explain in detail.	CO3	L2	12M

UNIT-III

5	Discuss about Back Propagation Multilayer Perceptron.	CO2	L3	12M
	OR			
6	Interpret the basic models of Artificial Neural Networks in briefly.	CO1	L2	12M

UNIT-IV

7	Discuss about Simple genetic algorithm with neat sketch.	CO4	L2	12M
	OR			
8	Illustrate the basic operators and basic technologies in genetic algorithm.	CO4	L3	12M

UNIT-V

9	Analyze Fuzzy Logic Tool Box utilized in Matlib.	CO5	L4	12M
	OR			
10	List out the various mathematical functions utilized in Matlib/Python lib.	CO5	L1	12M

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