O.P.Code: 20CS5005	R20	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year II Semester Supplementary Examinations April-2026
MACHINE LEARNING
(Computer Science & Engineering)

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

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

		UNIT-I			
1		Describe distance-based methods with a detailed explanation.	CO1	L2	12M
		OR			
2	a	Explain Linear Regression in supervised learning.	CO1	L2	6M
	b	Describe about Logistic Regression in supervised learning.	CO1	L2	6M
		UNIT-II			
3	a	Define clustering and explain the different types of clustering techniques in detail.	CO2	L2	6M
	b	Explain about Generative Models in Unsupervised Learning.	CO2	L2	6M
		OR			
4	a	How Matrix factorization works in PCA. Explain in detail.	CO2	L2	6M
	b	Explain PCA and its process with their applications.	CO2	L2	6M
		UNIT-III			
5	a	Explain evaluation techniques for machine learning models and demonstrate how model selection is performed.	CO3	L3	6M
	b	Define statistical theory how it is performed in machine learning.	CO3	L2	6M
		OR			
6		What is Random forest? Explain with example.	CO4	L2	12M
		UNIT-IV			
7	a	What is Sparse Modelling? Explain its functions?	CO5	L2	6M
	b	Illustrate about Semi supervised learning.	CO5	L3	6M
		OR			
8		Discuss scalable Machine learning with distributed & online.	CO5	L2	12M
		UNIT-V			
9	a	Compile the recent trends in various learning techniques of machine learning.	CO6	L6	6M
	b	Give a detail note on Classification methods for IOT with neat sketch.	CO6	L2	6M
		OR			
10		Explain the various models for IOT applications discuss with example.	CO6	L2	12M

***** END *****

28/4/26 FN

O.P.Code: 20CS5021	R20	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year II Semester Supplementary Examinations April-2026
HUMAN COMPUTER INTERACTION
(Computer Science & Engineering)

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

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

		UNIT-I			
1	a	Explain the importance of I/O channels and Memory in HCI with examples?	CO1	L2	6M
	b	Explain the importance of Devices and Memory in a computer of HCI?	CO1	L2	6M
		OR			
2	a	Explain the Principles of user interface design.	CO1	L2	6M
	b	Write a short note on the usability assessment in the design process.	CO1	L3	6M
		UNIT-II			
3	a	Discuss about human interaction speeds.	CO2	L3	6M
	b	What is meant by basic business function? Explain with example.	CO2	L2	6M
		OR			
4	a	Explain in detail about the important human characteristics in design.	CO2	L2	6M
	b	Explain briefly about how to distract the screen user.	CO2	L2	6M
		UNIT-III			
5	a	What are Window characteristics?	CO3	L1	6M
	b	How to format on Menus? Explain.	CO3	L2	6M
		OR			
6	a	What are the Window operations? Explain.	CO3	L2	6M
	b	Explain about the components of a Window.	CO3	L3	6M
		UNIT-IV			
7	a	Explain in detail about Platforms in Mobile Ecosystem with suitable Examples.	CO4	L4	6M
	b	Briefly Explain about Application frameworks with examples.	CO4	L4	6M
		OR			
8	a	Briefly explain about Mobile 2.0 and Mobile Design part of Mobile 2.0.	CO4	L3	6M
	b	Discuss about Elements of Mobile Design.	CO4	L2	6M
		UNIT-V			
9	a	How to select the device based controls. Explain in detail.	CO5	L4	6M
	b	What are Operable controls? Give example.	CO5	L3	6M
		OR			
10	a	Discuss about components of Multimedia.	CO5	L3	6M
	b	Explain in detail about choosing colours.	CO5	L2	6M

***** END *****

O.P.Code: 20CS5019 | R20 | H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year II Semester SupplementaryExaminations April-2026
CYBER SECURITY
(Computer Science & Engineering)

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

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

UNIT-I

1		Discuss and Elaborate about Cybercrime and its related security measures.	CO1	L2	12M
		OR			
2		Identify Cybercrimes Cases of Various Categories under ITA 2000.	CO1	L3	12M
		UNIT-II			
3	a	Discuss the various tools used in cybercrime.	CO2	L2	6M
	b	Classify different techniques used in cybercrime.	CO2	L4	6M
		OR			
4		Define Password Cracking? Explain the tools in password cracking.	CO1	L2	12M
		UNIT-III			
5		Explain the steps in Cyber Forensic analysis of e-mail in detail.	CO3	L1	12M
		OR			
6		Explain about Digital Forensics life cycle in detail.	CO3	L2	12M
		UNIT-IV			
7	a	Compare Mobile Computing Vs Wireless Computing.	CO5	L2	6M
	b	Distinguish Malwares, viruses and worms.	CO5	L4	6M
		OR			
8	a	Discuss the attacks on mobile or cell phones.	CO5	L2	6M
	b	Compare Mishing, Smishing and Vishing in detail.	CO5	L2	6M
		UNIT-V			
9		Explain in detail about organizational implications.	CO6	L2	12M
		OR			
10		Prioritize the theme behind the "Social media marketing tools".	CO6	L4	12M

***** END *****

23/4/26 FN

O.P.Code: 20CS5006 | R20 | H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year II Semester Supplementary Examinations April-2026
SOFT COMPUTING
(CSE)

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

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

UNIT-I

1	a	Compare Conventional AI and Computational Intelligence.	CO1	L4	6M
	b	Discuss about Machine Learning basics.	CO1	L2	6M
		OR			
2		List out various characteristics of soft computing and explain in detail.	CO1	L2	12M
		UNIT-II			
3	a	Differentiate classical and fuzzy sets.	CO2	L2	6M
	b	Describe the properties of fuzzy sets.	CO2	L4	6M
		OR			
4		Analyse the Fuzzy Inference Systems with neat diagram.	CO2	L6	12M
		UNIT-III			
5	a	What are the limitations of "Perceptron" model? Explain.	CO3	L2	6M
	b	Analyze Exclusive-OR problem in Perceptron model.	CO3	L4	6M
		OR			
6		Explain the Radial Basis Function(RBF) with simple example.	CO3	L2	12M
		UNIT-IV			
7		Discuss about Simple genetic algorithm with neat sketch.	CO4	L2	12M
		OR			
8	a	Explain different cross over operations performed in GA.	CO4	L2	6M
	b	Differentiate genetic algorithm versus traditional algorithm.	CO4	L2	6M
		UNIT-V			
9		Summarize the various classifiers involved in the implementation of Neural networks.	CO5	L2	12M
		OR			
10		Explain the basic features of MATLAB in detail.	CO5	L2	12M

***** END *****