



SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
23CD6T01	DEEP LEARNING	VI	CSE-DS	5	2025-26	10-12-2025
COURSE OUTCOMES						
1	Explore feed forward networks and Deep Neural networks					
2	Mathematically understand the deep learning approaches and paradigms					
3	Apply the deep learning techniques for various applications					
UNIT	Out Comes / Bloom's Level	Topic s No.	Topics/Activity	Text Book/ Reference	Contact Hour	Delivery Method
I	CO – 1	1.1	Basics- Biological Neuron	T1,T2	1	Chalk & Board
		1.2	Basics- Biological Neuron	T1,T2	1	
		1.3	Idea of computational units	T1,T2	1	
		1.4	Idea of computational units	T1,T2	1	
		1.5	McCulloch–Pitts unit	T1,T2	1	
		1.6	Thresholding logic	T1,T2	1	Power point presentation
		1.7	Linear Perceptron	T1,T2	1	Assignment
		1.8	Linear Perceptron	T1,T2	1	
		1.9	, Linear separability	T1,T2	1	
		1.10	Perceptron Learning Algorithm,	T1,T2	1	
		1.11	Convergence theorem for Perceptron Learning Algorithm	T1,T2	1	
		1.12	Convergence theorem for Perceptron Learning Algorithm	T1,T2	1	Test
Total					12	
II	CO – 2	2.1	Feed forward Networks- Multilayer Perceptron	T1,R1	1	Chalk & Board
		2.2	Introduction	T1,R1	1	
		2.3	Multilayer Perceptron	T2,R2	1	
		2.4	Multilayer Perceptron	T2,R2	1	
		2.5	Gradient Descent	T2,R2	1	
		2.6	Backpropagation	T2,R2	1	



SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by
NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956,
Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada
Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Raúl Rojas, Neural Networks: A Systematic Introduction, 1996
2	Christopher Bishop, Pattern Recognition and Machine Learning, 2007
3	François Chollet, Deep Learning with Python, Manning Publications, 2017
Web Details:	
1	<u>Foundations of Deep Learning: Concepts and Applications - Course</u>
2	<u>Deep Learning - IIT Ropar - Course</u>

	Name	Signature with Date
i. Faculty	Mrs. V. Sivani	 10/12/25
ii. Module Coordinator	Mr. K. Raja	
iii. Programme Coordinator	Dr. RVVSV Prasad	 10/12/25


Principal