DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - DATA SCIENCE

Lesson Plan & Work-done Diary for AY: 2025-26, Even Semester

Course with Code: Artificial Intelligence and Machine Learning -BDS602				Faculty: Dr. Neethi M V			Semester & Section: VI	
Class No.	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Class No.**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-1								
1.	10/2/25	**Introduction to the course** **Introduction:** What is AI?	PPT	1				
2.	11/2/25	Foundations and History of AI	PPT	2				
3.	13/2/25	**Intelligent Agents:** Agents and environment,	PPT	3				
4.	14/2/25	Agents and environment, .	PPT	4				
5.	17/2/25	. Concept of Rationality	PPT	5				
6.	18/2/25	The nature of environment, The structure of agents	PPT	6				
7.	20/2/25	Revision, Module End Questiondiscussion, Quiz	PPT	7				

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MODULE-2								
1.	21/2/25	**Problem-solving:** Problem-solving agents,	PPT	1				
2.	24/2/25	Example problems,	PPT	2				
3.	25/2/25	Searching for Solutions Uninformed Search Strategies	PPT	2				
4.	27/2/25	Searching for Solutions Uninformed Search Strategies	PPT	4				
5.	28/2/25	: Breadth First search,	PPT	5				
6.	03/3/25	Depth First Search	PPT	6				
7.	04/3/25	Depth First Search	PPT	7				
8.	06/3/25	Iterative deepening depth first search;	PPT	8				
9.	07/3/25	Heuristic functions	PPT	9				

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MODULE-3								
1.	10/3/25	Introduction to machine learning: Need for Machine Learning,	PPT	1				
2.	11/3/25	Machine Learning Explained, and Machine Learning in relation to other fields,	PPT	2				
3.	13/3/25	Types of Machine Learning. Challenges of Machine Learning,	PPT	3				
4.	14/3/25	Machine Learning process,	PPT	4				
5.	17/3/25	Machine Learning applications.	PPT	5				
6.	18/3/25	Understanding Data: What is data, types of data,	PPT	6				
7.	24/3/25	Big data analytics and types of analytics, Big data analytics framework,	PPT	7				
8.	25/3/25	Descriptive statistics, univariate data analysis and visualization	PPT	8				

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MODULE-4								
1.	27/3/25	Understanding Data Bivariate and Multivariate data,	PPT	1				
2.	28/3/25	Multivariate statistics , Essential mathematics for Multivariate data,	PPT	2				
3.	01/04/25	Overview hypothesis, Feature engineering and dimensionality reduction techniques	PPT	3				
4.	03/04/25	Basics of Learning Theory: Introduction to learning and its types,	PPT	4				
5.	04/04/25	Introduction computation learning theory	PPT	5				
6.	07/04/25	Design of learning system, Introduction	PPT	6				
7.	08/04/25	concept learning. Similarity-based learning:	PPT	7				
8	11/04/25	Introduction to Similarity or instance based learning,	PPT	8				
9	15/04/25	Nearest- neighbour learning, weighted k- Nearest - Neighbour algorithm	PPT	9				

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MODULE-5								
1.	25/4/25	**Artificial Neural Network:** Introduction,	PPT	1				
2.	29/4/25	Biological neurons, Artificial neurons,	PPT	2				
3.	02/5/25	Perceptron and learning theory,	PPT	3				
4.	05/5/25	types of Artificial neural Network,	PPT	4				
5.	06/5/25	learning in multilayer Perceptron,	PPT	5				
6.	08/5/25	Radial basis function neural network,	PPT	6				
7.	09/5/25	Radial basis function neural network,	PPT	7				
8.	12/5/25	self-organizing feature map,	PPT	8				
9.	15/5/25	self-organizing feature map,	PPT					

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/Self-study	3		
3	Tutorials/ Extra classes	1		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	