

PNS School of Engg. & Tech, Marshaghai, Kendrapara

LESSON PLAN Session (2025-2026)

Discipline: Computer Science		Semester: 6th	Name of the faculty: Jayashree Bishoi
Subject: Artificial Intelligence & Machine Learning (Th-4)		No. of Days/week: 05	Start Date: 22/12/2025 End Date: 18/04/2026
Week	Class Day	Theory Topics	
1 st	1 st	1.Introduction to AI	
	2 nd	Goals and Applications of AI	
	3 rd	Intelligent agent	
	4 th	Computer vision	
	5 th	Natural Language Processing	
2 nd	1 st	Question Answer Discussion	
	2 nd	Turing test and its details	
	3 rd	Problem solving in Games	
	4 th	2.Introduction to Search Algorithm	
	5 th	Search, Search space, Search Tree	
3 rd	1 st	Categories and Types of Search	
	2 nd	Details about Types of Search	
	3 rd	Heuristic Algorithm	

	4 th	Solution Guaranteed Algorithm
	5 th	Local search and Optimal problem(Hill climbing, BFS,A*,AO*)
4th	1 st	Optimal problem(Hill climbing, BFS,A*,AO*)
	2 nd	Adversarial Search
	3 rd	Question Answer Discussion
	4 th	Search technique in game playing
	5 th	AI and Game Playing
5th	1 st	3.Knowledge Representation and Reasoning
	2 nd	What to represent, Knowledge
	3 rd	Properties of Knowledge Representation System
	4 th	Approaches of Knowledge Representation System
	5 th	Knowledge Representation
6th	1 st	Basics of Reasoning
	2 nd	Types of reasoning
	3 rd	Question Answer Discussion
	4 th	4.Machine Learning
	5 th	Details about Machine Learning
7th	1 st	Supervised Learning Vrs Unsupervised Learning
	2 nd	Statistical or Unsupervised Learning
	3 rd	Machine Learning Properties
	4 th	Reinforcement Learning
	5 th	Reinforcement Learning Continue
8th	1 st	Decision Tree
	2 nd	Question Answer Discussion
	3 rd	5.Pattern Recognition

	4 th	Design Principles of Pattern recognition system
	5 th	Statistical Pattern recognition System
9th	1 st	Machine Perception
	2 nd	Line Finding and Interception
	3 rd	Object Identification
	4 th	Question Answer Discussion
	5 th	6. CLASSIFICATION
10th	1 st	Classification algorithms
	2 nd	Classification algorithm Types
	3 rd	Classification Problems
	4 th	Learners in Classification Problems
	5 th	Use cases of Classification Algorithms
11th	1 st	Question Answer Discussion
	2 nd	7.Expert System
	3 rd	Basic Architecture
	4 th	Type of Problem Solved by Expert system
	5 th	Features of an Expert System
12th	1 st	Expert System Architectures
	2 nd	Expert System Tools
	3 rd	Existing Expert Systems
	4 th	Applications of Expert System Technology
	5 th	Question Answer Discussion

SIGNATURE OF LECTURER

SIGNATURE OF H.O.D