

PNS School of Engg. & Tech, Marshaghai, Kendrapara

LESSON PLAN

Session (2025-2026)

Discipline: Computer Science & Engineering		Semester-4th	Name of the faculty: Jayashree Bishoi
Subject: INTELLIGENT COMPUTING CSEPE 204C		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 Intelligent Computing	
	2 nd	Definition and Scope of Intelligent Computing	
	3 rd	Evolution of Intelligent Systems	
	4 th	Applications of Intelligent Computing	
	5 th	Basics of Symbolic AI and Statistical AI	
2 nd	1 st	Difference Between Symbolic AI and Statistical AI	
	2 nd	Learning in Intelligent Systems	
	3 rd	Basics of Computational Intelligence.	
	4 th	Question Answer Discussion	
	5 th	2.Fuzzy Logic and Evolutionary Computing	
3 rd	1 st	Introduction to Fuzzy Systems	
	2 nd	Key Concepts of Fuzzy Logic	
	3 rd	Introduction to Fuzzy Sets	
	4 th	Fuzzy Inference Systems	
	5 th	Fuzzy Membership Functions	

4th	1 st	Fuzzy Logic Architecture
	2 nd	Applications of Fuzzy Logic in Control Systems
	3 rd	Progressive Assessment Test-1
	4 th	Genetic Algorithms: Basics
	5 th	Genetic Algorithms:Applications
5th	1 st	Question Answer Discussion
	2 nd	3.Fundamentals of Machine Learning
	3 rd	Introduction to Supervised Learning
	4 th	Introduction to unsupervised Learning
	5 th	Introduction to Reinforcement Learning
6th	1 st	Difference Between Supervisd and Unsupervised Learning
	2 nd	Data Preprocessing in Machine Learning
	3 rd	Feature Engineering in Machine Learning
	4 th	Basic Regression Algorithms
	5 th	Basic Classification Algorithms
7th	1 st	Types of Regression Algorithms
	2 nd	Types of Classification Algorithms
	3 rd	Model Evaluation Metrics (Accuracy, Precision)
	4 th	Model Evaluation Metrics (Recall, F1-score).
	5 th	Question Answer Discussion
8th	1 st	4.Natural Language Processing (NLP) and Expert Systems
	2 nd	Basics of NLP: Tokenization
	3 rd	Basics of NLP:Stemming
	4 th	Progressive Assessment Test-2
	5 th	Basics of NLP:Lemmatization

9th	1 st	Basics of NLP: Named Entity Recognition
	2 nd	Basics of NLP: POS Tagging
	3 rd	Sentiment Analysis using NLP Techniques
	4 th	Applications of Sentiment Analysis using NLP Techniques
	5 th	Introduction to Expert Systems
10th	1 st	Type of Problem Solved by Expert system
	2 nd	Features of an Expert System
	3 rd	Introduction to Knowledge Representation
	4 th	Question Answer Discussion
	5 th	5.Neural Networks and Deep Learning:
11th	1 st	Basics of Artificial Neural Networks (ANN)
	2 nd	Perceptron(Introduction and Basics)
	3 rd	Multilayer Perceptron (MLP)
	4 th	Activation Functions
	5 th	Backpropagation
12th	1 st	Introduction to Convolutional Neural Networks (CNNs)
	2 nd	Introduction to Recurrent Neural Networks (RNNs)
	3 rd	Long Short-Term Memory networks(LSTMs)
	5 th	Progressive Assessment Test-3
	1 st	Question Answer Discussion

SIGNATURE OF LECTURER

SIGNATURE OF H.O.D

