

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
CSEPE 204C		
Week	Class Day	Theory Topics
1st	1st	1. Introduction to Intelligent Computing
	2nd	Definition and Scope of Intelligent Computing
	3rd	Evolution of Intelligent Systems
	4th	Applications of Intelligent Computing
	5th	Basics of Symbolic AI and Statistical AI
2nd	1st	Difference Between Symbolic AI and Statistical AI
	2nd	Learning in Intelligent Systems
	3rd	Basics of Computational Intelligence.
	4th	Question Answer Discussion
	5th	2. Fuzzy Logic and Evolutionary Computing
3rd	1st	Introduction to Fuzzy Systems
	2nd	Key Concepts of Fuzzy Logic
	3rd	Introduction to Fuzzy Sets
	4th	Fuzzy Inference Systems
	5th	Fuzzy Membership Functions

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

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

SIGNATURE OF LECTURER

SIGNATURE OF H.O.D

