



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LESSON PLAN SESSION: (2026-27)

Discipline: Computer Science and Engineering.	Semester:3rd,Winter-2026	Name of the Faculty: Jayanta Kumar Behera Email-ID: jayantabhr75@gmail.com
Subject: Data Structure,TH-3, CSEPC 205	No of Days/Week:03	Start Date: 01/07/2026 End Date: 05/11/2026

Week	Class Day	Theory Topics
1ST	1ST	Introduction to Data Structures : Basic Terminology,
	2ND	Explain Data, Information, data types.
	3RD	Define data structure.
2ND	1ST	Classification of Data Structure.
	2ND	Explain different operations of Data structure.
	3RD	Storing Strings, State Character Data Type.
3rd	1ST	Asymptotic and worst-case analysis of algorithms.
	2ND	Revision.
	3RD	Linear Data Structures: Stacks- Introduction to Stacks.
4th	1ST	Array Representation of Stacks, Operations on a Stack.
	2ND	Applications of Stacks.
	3RD	Infix-to-Postfix Transformation.
5th	1ST	Evaluating Postfix Expressions.
	2ND	Revision.
	3RD	Queues: Introduction to Queues.
6th	1ST	Array Representation of Queues.
	2ND	Quiz Test.
	3RD	Operations on a Queue.
7th	1ST	Types of Queues, De Queue,
	2ND	Circular Queue.
	3RD	Applications of Queues-Round Robin Algorithm.
	1ST	Revision.

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8th	2ND	Question Answer Discussion.
	3RD	Linked Lists: Singly Linked List.
9th	1ST	Representation in Memory.
	2ND	Operations on a Single Linked List.
	3RD	Revision.
10th	1ST	Circular Linked Lists.
	2ND	Doubly Linked Lists.
	3RD	Linked List Representation and Operations of Stack.
11th	1ST	Linked List Representation and Operations of Queue.
	2ND	Revision.
	3RD	Non-Linear Data Structures: Trees-Basic Terminologies.
12th	1ST	Definition and Concepts of Binary Trees.
	2ND	Representations of a Binary Tree using Arrays.
	3RD	Representations of a Binary Tree using Linked Lists.
13th	1ST	Operations on a Binary Tree-Insertion, Deletion, Traversal.
	2ND	Types of Binary Trees.
	3RD	Revision.
14th	1ST	Quiz Test.
	2ND	GRAPHS: Graph Terminologies.
	3RD	Representation of Graphs.
15th	1ST	Set, Linked, Matrix,
	2ND	Graph Traversals
	3RD	Revision.

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