

LESSON PLAN:		
Discipline: CSE	Semester: 3rd	Name of the Teaching Faculty: Smt. Nishita Kindo
Subject: Data Structure	No. Of Days/per week class allotted: 03 periods per week (Mon, Wed & Fri-1 Period each)	Semester: From Date: 14-07-2025 To Date: 15-11-2025 No. Of Week: 15
WEEK	CLASS DAY	THEORY /PRACTICAL TOPICS
1st	Day 1	Syllabus Discussion
	Day 2	1. Introduction to Data Structures
	Day 3	1.1 Basic Terminology 1.2 Classification of Data Structure
2nd	Day 1	1.3 Operations on Data Structure
	Day 2	1.4 Asymptotic and worst-case analysis of algorithms
	Day 3	Revision cum Assignment- Chap 1
3rd	Day 1	2. Linear Data Structures 2.1 Stacks-Introduction to Stacks
	Day 2	2.2 Array Representation of Stacks
	Day 3	2.3 Operations on a Stack 2.4 Applications of Stacks
4th	Day 1	2.5 Infix-to-Postfix Transformation
	Day 2	2.6 Evaluating Postfix Expressions
	Day 3	2.7 Queues: Introduction to Queues
5th	Day 1	2.8 Array Representation of Queues
	Day 2	2.8 Operations on a Queue
	Day 3	2.9 Types of Queues-DeQueue
6th	Day 1	2.9 Types of Queues-Circular Queue
	Day 2	2.10 Applications of Queues
	Day 3	2.11 Round Robin Algorithm Revision cum Assignment- Chap 2
7th	Day 1	3. Linked Lists 3.1 Introduction to Linked List
	Day 2	3.2 Singly Linked List
	Day 3	3.3 Representation in Memory
8th	Day 1	3.4 Operations on a Single Linked List
	Day 2	3.5 Circular Linked Lists
	Day 3	3.6 Doubly Linked Lists
9th	Day 1	3.7 Linked List Representation and Operations of Stack
	Day 2	3.8 Linked List Representation and Operations of Queue
	Day 3	Class Test 1 Revision cum Assignment- Chap 3
10th	Day 1	4. Non-Linear Data Structures 4.1 Introduction to Non-Linear Data Structures
	Day 2	4.2 Trees-Basic Terminologies
	Day 3	4.3 Definition and Concepts of Binary Trees

11th	Day 1	4.4 Representations of a Binary Tree using Arrays
	Day 2	4.5 Representations of a Binary Tree using Linked Lists
	Day 3	4.6 Operations on a Binary Tree-Insertion
12th	Day 1	4.7 Deletion
	Day 2	4.8 Traversals, Types of Binary Trees
	Day 3	4.9 GRAPHS: Graph Terminologies
13th	Day 1	4.10 Representation of Graphs- Set, Linked, Matrix
	Day 2	4.11 Graph Traversals
	Day 3	Revision cum Assignment- Chap 4
14th	Day 1	Class Test 2
	Day 2	Doubt Clearing Class
	Day 3	Doubt Clearing Class
15th	Day 1	Doubt Clearing Class
	Day 2	Previous year Question discussion
	Day 3	Previous year Question discussion