

LESSON PLAN: Data Structure (Course Code: CSEPC 205)		
Discipline :	Computer Science and Engineering	
Faculty :	Er. Ajit Dash	
Semester :	3rd Semester	
Duration :	15 Weeks (1st July 2026 to 5th November 2026)	
Work Load :	Lecture :	3 Lectures per week (50 minutes per Class)
Week	Week Day	Description
1 st	1	Basic Terminology
	2	Classification of Data Structure
	3	Classification of Data Structure
2 nd	4	Operations on Data Structure
	5	Operations on Data Structure
	6	Operations on Data Structure
3 rd	7	Asymptotic and worst-case analysis of algorithms
	8	Asymptotic and worst-case analysis of algorithms
	9	Introduction to Stacks
4 th	10	Array Representation of Stacks
	11	Operations on a Stack
	12	Applications of Stacks Infix-to-Postfix Transformation, evaluating Postfix Expressions
5 th	13	Introduction to Queues, Array Representation of Queues
	14	Operations on a Queue
	15	Operations on a Queue
6 th	16	Types of Queues-DeQueue
	17	Circular Queue
	18	Applications of Queues (Round Robin Algorithm)
7 th	19	Singly Linked List
	20	Representation in Memory
	21	Operations on a Single Linked List
8 th	22	Operations on a Single Linked List
	23	Operations on a Single Linked List
	24	Circular Linked Lists
9 th	25	Doubly Linked Lists
	26	Linked List Representation and Operations of Stack
	27	Linked List Representation and Operations of Stack
10 th	28	Linked List Representation
	29	Linked List Representation
	30	Operations of Queue
11 th	31	Operations of Queue
	32	Operations of Queue
	33	Basic Terminologies, Definition and Concepts of Binary Trees

12 th	34	Representations of a Binary Tree using Arrays and Linked Lists
	35	Representations of a Binary Tree using Arrays and Linked Lists
	36	Operations on a Binary Tree Insertion, Deletion, Traversals
13 th	37	Operations on a Binary Tree Insertion, Deletion, Traversals
	38	Types of Binary Trees
	39	Types of Binary Trees
14 th	40	Graph Terminologies
	41	Representation of Graphs Set, Linked, Matrix
	42	Representation of Graphs Set, Linked, Matrix
15 th	43	Representation of Graphs Set, Linked, Matrix
	44	Graph Traversals
	45	Graph Traversals


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