

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

12 <sup>th</sup>	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 <sup>th</sup>	37	Operations on a Binary Tree Insertion, Deletion, Traversals
	38	Types of Binary Trees
	39	Types of Binary Trees
14 <sup>th</sup>	40	Graph Terminologies
	41	Representation of Graphs Set, Linked, Matrix
	42	Representation of Graphs Set, Linked, Matrix
15 <sup>th</sup>	43	Representation of Graphs Set, Linked, Matrix
	44	Graph Traversals
	45	Graph Traversals

  
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