



**DEPARTMENT OF BACHELOR OF COMPUTER APPLICATIONS**

**LESSON PLAN & WORK-DONE DIARY FOR AY:2024-25, EVEN SEMESTER**

Course with Code: Fundamentals of Data Structures – BCA204				Faculty: Prof. Prashant R Kaigaddi		Semester & Section: II Sem		
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
<b>MODULE-1</b>								
1	19-03-2025	Definitions & Types of Data Structures (Primitive vs Non-Primitive, Linear vs Non-Linear)	Chalk & Talk	1	19-03-2025			
2	20-03-2025	Operations on Data Structures	PPT	2	20-03-2025			
3	24-03-2025	Memory Allocation (Static vs Dynamic: malloc, calloc, realloc, free)	PPT	3	24-03-2025			
4	26-03-2025	Algorithm Specification & Performance Analysis	PPT	4	26-03-2025			
5	01-04-2025	Recursion: Types, Techniques, Examples (GCD, Factorial, Binomial Coefficient, Towers of Hanoi)	PPT	5	28-03-2025			
6	01-04-2025	Recursive vs Iterative Techniques	PPT	6	28-03-2025			



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MODULE-2								
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
7	02-04-2025	Operations on Arrays	PPT	7	02-04-2025			
8	07-04-2025	Arrays as Abstract Data Types (ADT)	PPT	8	07-04-2025			
9	07-04-2025	Representation of Arrays in Memory	PPT	9	07-04-2025			
10	08-04-2025	Sorting (Selection, Bubble, Quick, Merge, Insertion)	PPT	10	08-04-2025			
11	09-04-2025	Insertion, Quick, Merge Sort	PPT	11	09-04-2025			
12	16-04-2025	Searching (Sequential, Binary )		12	16-04-2025			
13	21-04-2025	Iterative & Recursive		13	21-04-2025			



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**MODULE-3**

Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
14	21-04-2025	Stack: Definition, Representation	PPT	14	21-04-2025			
15	23-04-2025	Operations, Applications on Stack	PPT	15	23-04-2025			
16	28-04-2025	Infix, Postfix, Prefix	PPT	16	28-04-2025			
17	28-04-2025	Conversion of Infix to Postfix using Stack	PPT	17	28-04-2025			
18	30-04-2025	Applications of stack in Function call		18	30-04-2025			
19	05-05-2025	Queue: Definition, Representation		19	05-05-2025			
20	05-05-2025	Types of Queue		20	05-05-2025			
21	06-05-2025	Double Ended Queue		21	06-05-2025			
22	07-05-2025	Priority Queue		22	07-05-2025			
23	12-05-2025	Operations on Queue		23	12-05-2025			



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**MODULE-4**

Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
24	12-05-2025	Linked Lists: Definition and Representation	PPT	24	12-05-2025			
25	13-05-2025	Types: Singly	PPT	25	13-05-2025			
26	14-05-2025	Doubly, Circular	PPT	26	14-05-2025			
27	19-05-2025	Doubly Circular	PPT	27	19-05-2025			
28	19-05-2025	Operations: Traversing, Searching	PPT	28	19-05-2025			
29	21-05-2025	Insertion, Deletion	PPT	29	21-05-2025			



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**MODULE-5**

Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
30	26-05-2025	Trees: Tree Terminology	PPT	30	26-05-2025			
31	26-05-2025	Root node	PPT	31	26-05-2025			
32	28-05-2025	leaf, siblings, depth	PPT	32	28-05-2025			
33	02-06-2025	Terminal Nodes	PPT	33	02-06-2025			
34	02-06-2025	Non Terminal Nodes	PPT	34	02-06-2025			
35	09-06-2025	Binary Trees Types : Strict		35	09-06-2025			
36	09-06-2025	Complete Binary Tree		36	09-06-2025			
37	11-06-2025	BST- Binary Search Tree		37	11-06-2025			
38	13-06-2025	Heap Tree		38	13-06-2025			
39	16-06-2025	Array Representation		39	16-06-2025			
40	18-06-2025	Traversal of Binary Tree		40	18-06-2025			
41	23-06-2025	Pre-order, In-order, Post-order		41	23-06-2025			
42	23-06-2025	Revision of Model 1,2,3		42	23-06-2025			



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43	24-06-2025	Revision of Model 4,5		43	24-06-2025		
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	Activity	Planned	Actual	Remarks
1	Theory Classes	43		
2	Assignments/Quizzes/Activity/ Self-study	2/2		
3	Tutorials/ Extra classes	2		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100%		
<b>Planning</b>			<b>Execution</b>	
<b>Faculty Signature:</b>			<b>Faculty Signature:</b>	
<b>HoD Signature:</b>			<b>HoD Signature:</b>	



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