Lesson Plan &Work-done Diary for AY: 2025-26, ODD Semester

Course with Code: Data Structure and Applications (BCS304)					Faculty: Ms. Ambika V		Semester & Section: 3 'A'	
Module	**Class No.**	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-1	1		Introduction to Data Structures with examples	PPT Chalk & Talk				
	2		Classifications (Primitive & Non-Primitive)	PPT Chalk & Talk				
	3		Data structure Operations Review of pointers and dynamic Memory Allocation	PPT Chalk & Talk				
	4		ARRAYS and STRUCTURES: Arrays, Dynamic Allocated Arrays	PPT Chalk & Talk				
	5		Structures and Unions	PPT Chalk & Talk				
	6		Polynomials, Sparse Matrices	PPT Chalk & Talk				
	7		Representation of Multidimensional Arrays	PPT Chalk & Talk				
	8		Strings STACKS: Stacks, Stacks Using Dynamic Arrays	PPT Chalk & Talk				
	9		Evaluation and conversion of Expressions	PPT Chalk & Talk				
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MODULE - 2	10		Introduction to Queues and Circular Queues	PPT Chalk & Talk				
	11		Using Dynamic Arrays	PPT Chalk & Talk				
	12		Multiple Stacks and queues	PPT Chalk & Talk				
	13		LINKED LISTS: Singly Linked,	PPT Chalk & Talk				
	14		Lists and Chains, Representing Chains in C	PPT Chalk & Talk				
	15		Linked Stacks and Queues,	PPT Chalk & Talk				
	16		Polynomials	PPT Chalk & Talk				
	17		Quiz & Question paper discussion	PPT Chalk & Talk				
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MODULE-3	18		**LINKED LISTS:** Additional List Operations	PPT Chalk & Talk				
	19		Sparse Matrices with examples	PPT Chalk & Talk				
	20		Doubly Linked List	PPT Chalk & Talk				
	21		TREES: Introduction and Binary Trees	PPT Chalk & Talk				
	22		Binary Tree Traversals	PPT Chalk & Talk				
	23		Threaded Binary Trees	PPT Chalk & Talk				
	24		Revision & Question Paper	PPT Chalk & Talk				

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MODULE-4	25		Binary Search trees with examples	PPT Chalk & Talk				
	26		Selection Trees, Forests	PPT Chalk & Talk				
	27		Representation of Disjoint sets and examples	PPT Chalk & Talk				
	28		Counting Binary Trees	PPT Chalk & Talk				
	29		GRAPHS: The Graph Abstract Data Types	PPT Chalk & Talk				
	30		Elementary Graph Operations	PPT Chalk & Talk				
	31		Revision & Question paper discussion	PPT Chalk & Talk				

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MODULE-5	32		Introduction to Hashing	PPT Chalk & Talk				
	33		Static Hashing, Dynamic Hashing	PPT Chalk & Talk				
	34		PRIORITY QUEUES: Single and double ended Priority Queues	PPT Chalk & Talk				
	35		Single and double ended Priority Queues	PPT Chalk & Talk				
	36		Leftist Trees INTRODUCTION TO EFFICIENT BINARY SEARCH TREES	PPT Chalk & Talk				
	37		EFFICIENT BINARY SEARCH TREES	PPT Chalk & Talk				
	38		Optimal Binary Search Trees	PPT Chalk & Talk				
	39		Problems Revision	PPT Chalk & Talk				
	40		Question paper discussion	PPT Chalk & Talk				

	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/Quizzes/ Self-study	3		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	