

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - DATA SCIENCE

Lesson Plan & Work-done Diary for AY: 2026-27, Odd Semester

Course with Code: Data Structures And Applications -1BCS305				Faculty: Dr. Neethi M V			Semester & Section: III	
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
MODULE-1								
1.		Introduction: Data Structures	PPT	1				
2.		Classifications (Primitive & Non-Primitive). Pointer	PPT	2				
3.		Dynamic Memory Allocation	PPT	3				
4.		Arrays, Dynamically Allocated Arrays	PPT	4				
5.		Structures and Unions	PPT	5				
6.		PolynomialsPolynomials	PPT	6				
7.		Sparse Matrices	PPT	7				
8.		Sparse Matrix Representation and Transposing a Matrix.	PPT	8				



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MODULE-2								
1.		Stacks: Definition, Stack Operations	PPT	1				
2.		Array Representation of Stacks	PPT	2				
3.		Stacks using Dynamic Arrays	PPT	3				
4.		Stack Applications	PPT	4				
5.		Polish notation	PPT	5				
6.		Infix to Postfix Conversion	PPT	6				
7.		Evaluation of Postfix Expression	PPT	7				
8.		Queues: Definition, Array Representation, Queue Operations	PPT	8				



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MODULE-3								
1.		Circular Queues	PPT	1				
2.		Circular queues using Dynamic arrays	PPT	2				
3.		Multiple Stacks and Queues.	PPT	3				
4.		.LINKED LISTS: Singly Linked Lists and Chains	PPT	4				
5.		Representing Chains in C,	PPT	5				
6.		Linked Stacks and Queues	PPT	6				
7.		Additional List Operations,	PPT	7				
8.		Sparse Matrices:	PPT	8				
9.		Sparse Matrix Representation, Doubly Linked List	PPT	9				



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MODULE-4								
1.		Trees: Introduction-Terminology,	PPT	1				
2.		Binary Trees, Properties of Binary trees	PPT	2				
3.		Trees, Binary Tree Traversals	PPT	3				
4.		Threaded Binary Trees	PPT	4				
5.		Binary Search Trees	PPT	5				
6.		Searching	PPT	6				
7.		Insertion,	PPT	7				
8.		Deletion	PPT	8				
9.		Counting Binary Trees	PPT	9				





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MODULE-5								
1.		The Graph Abstract Data Types	PPT	1				
2.		Elementary Graph Operations	PPT	2				
3.		HASHING: Introduction	PPT	3				
4.		Static Hashing	PPT	4				
5.		Dynamic Hashing.	PPT	5				
6.		PRIORITY QUEUES	PPT	6				
7.		Single and double ended Priority Queues	PPT	7				
8.		Leftist Trees	PPT	8				





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	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/ Quizzes/Self-study	2		
3	Tutorials/ Extra classes	3		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	



ATME

College of Engineering



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