



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

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

Course with Code: Data Structures and Applications – 1BCS305				Faculty: Ms. Likitha. D			Semester & Section: 3 rd 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
MODULE-1								
1		Introduction : Data Structures	Chalk & Talk, PPT	1				
2		Classifications (Primitive & Non-Primitive)	Chalk & Talk, PPT	2				
3		Pointers and Dynamic Memory Allocation	Chalk & Talk, PPT	3				
4		Arrays	Chalk & Talk, PPT	4				
5		Dynamically Allocated Arrays	Chalk & Talk, PPT	5				
6		Structures and Unions	Chalk & Talk, PPT	6				
7		Polynomials	Chalk & Talk	7				
8		Sparse Matrices: Sparse Matrix Representation and Transposing a Matrix.	Chalk & Talk, PPT	8				





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9		Revision and Quiz	Chalk & Talk, MS FORMS	9				
10		Online Class	PPT	10				
11		Tutorial Class	Chalk & Talk	11				



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



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9		Revision and Quiz , IA 1 – Scheme Discussion	Chalk & Talk, MS Forms	9				
10		Online Class	PPT	10				
11		Tutorial Class	Chalk & Talk	11				



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



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9		Doubly Linked List.	Chalk & Talk, PPT	9				
10		Revision and Quiz, IA 2 – Scheme Discussion	Chalk & Talk, MS Forms	10				
11		Online Class	PPT	11				
12		Tutorial Class	Chalk & Talk	12				



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MODULE-4								
1		Trees: Introduction-Terminology	Chalk & Talk, PPT	1				
2		Binary Trees, Properties of Binary trees	Chalk & Talk, PPT	2				
3		Array and linked Representation of Binary Trees	Chalk & Talk, PPT	3				
4		Binary Tree Traversals – preorder	Chalk & Talk, PPT	4				
5		Inorder, postorder	Chalk & Talk, PPT	5				
6		Threaded Binary Trees	Chalk & Talk, PPT	6				
7		Binary Search Trees – Definition	Chalk& Talk	7				
8		Searching, Insertion	Chalk & Talk, PPT	8				





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9		Deletion, Counting Binary Trees	Chalk & Talk, PPT	9				
10		Revision and Quiz	Chalk & Talk, MS Forms	10				
11		Online Class	PPT	11				
12		Tutorial Class	Chalk & Talk	12 1				



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





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9		Revision and Quiz , IA 3 – Scheme Discussion	Chalk & Talk, MS Forms	9				
10		Model Paper Discussion	Chalk & Talk, PPT	10				



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	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/ Self-study	05		
3	Tutorials/ Extra classes	6		
4	Internal Assessments	03		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HOD Signature:			HOD Signature:	





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