

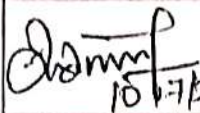



Department of Information Technology	LP: CS18561
B.E/B-Tech/M.E/M.Tech : EEE Regulation::2018A	Rev. No: 02
PG Specialisation : NA	Date: 10/7/2023
Sub. Code / Sub. Name : CS18561- Programming and Data Structures Laboratory	

Session No*	List of Experiments	CO
1	Classes and Objects i. Constructors and Destructors ii. Static data member and member Function.	3
2	Friend Function Dynamic Memory Allocation	3
3	Compile Time Polymorphism i. Function overloading ii. Operator Overloading	3
4	Inheritance	3
5	Run-time Polymorphism i. Virtual Functions ii. Abstract Base classes	3
6	Linked Lists - Implementation of Singly Linked List Addition of two polynomial expressions	1,4
7	Stacks i. Implementation of Stack operations using Arrays ii. Implementation of Stack operations using Linked List	1
8	Applications of stack i. Infix-to postfix conversion ii. Expression Evaluation	4
9	Queue Implementation of Circular Queue operations using Arrays	1
10	Implement Binary Search Tree operations - Creation, insertion, delete, search, Traversals	2
11	Implement graph traversals	2
12	Implement Linear and Binary Search algorithms	5
13	Implement Merge Sort and Quick Sort	5
14	Model Exam	
Content beyond syllabus (if any):		
* Session Duration: 150 minutes		

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	Prepared by	Approved by
Signature	 10/7/23	 10/7/23
Name	Dr. A. Indumathi, Ms. N. Uma	Dr. V. Vidhya
Designation	Associate Professor/INT Assistant Professor/INT	HOD/INT
Date	10/07/2023	10/07/2023
Remarks*		
Remarks*		

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD