GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002;

 Phone : 0257-2281522
 Fax : 0257-2281319

 E-Mail : princoej@rediffmail.com
 Web: http://gcoej.ac.in

Year and Program: <u>S.Y. B. Tech.(Computer)</u>
Academic Year: <u>2018-19, Sem-IV</u>

Course Code and Course Name: <u>CO255-Data Structures and Files Lab</u>

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Sr. No.	Title of Experiment	Date of Performance	Date of Comple	Page No.	Sign of Teache r
1	Write a program for Linked List Operations.				
2	Write a program to implement Stack as an ADT using Linked List				
3	Write a program to implement Queue as an ADT using Linked List				
4	Write a program for Doubly Linked List Operations				
5	Write a program to implement a single variable polynomial using Singly Linked List and perform Addition, Display and Evaluation				
6	Write a program to Create binary tree and perform recursive traversals.				
7	Write a program to Create binary Search tree and perform Non-recursive traversals.				
8	Write a program to perform operations on binary search tree like Create, Display Level wise, Height of the tree and print leaf nodes				
9	Represent a given graph using adjacency matrix and calculate Indegree and Outdegree of given graph				
10	Represent a given graph using adjacency matrix and perform BFS				

11	Represent a given graph using adjacency matrix and perform DFS		
12	Represent graph using adjacency matrix and generate minimum spanning tree using Prism's algorithm		
13	Implementation of Hash table using array and handle collisions using Linear probing with or without replacement		
14	Mini Project		

CERTIFICATE

	CERTIFICATE		
This is to certify that Mr.		1	.1 . 1 . 1
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the experiments / work / assignments	specified for Internal Contin	nuous Assessm	ent of <i>CO255-</i>
Data Structures and Files Lab as sp	pecified in syllabus of this In	stitute for the	academic year
2018-19.	•		•
Course Teacher	Course Coordinator	HoD	Principa
Ashwini Afre / Harish Gadade	Harish D. Gadade	-	