

LESSON PLAN

SUB: DATA STRUCTURES & ALGORITHMS LAB

BRANCH:- COMPUTER SCIENCE& ENGG.

SEMESTER:3rd

NAME OF FACULTY: MONALISA SETHI (GF in CSE)



GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2026-27


Hod, CSE


academic co-ordinator
Academic Co-ordinator


principal
Govt. Polytechnic, Bhadrak

DEPARTMENT OF Computer Science & Engg.,

Discipline: Computer Science & Engineering	Semester: 3rd	Name of the faculty: Miss-Monalisa Sethi Email Id:monalisasethi147@gmail.com
Subject: Data Structure & Algorithms Lab (Pr-3)	No. of Days/week: 03	StartDate: 01.07.2026 EndDate: 05.11.2027

Week	Class Day	Practical Topics
1 st	1 st	Write a program to analyze & compare the time complexity of basic operations on arrays & linked lists
	2 nd	Implementation of Stack operation using arrays & linked lists
2 nd	1 st	Implementation of Stack operation using arrays & linked lists, Develop programs for application of stack
	2 nd	Develop programs for application of stack
3 rd	1 st	Implement queue operations using arrays & linked lists
	2 nd	Implement queue operations using arrays & linked lists, Write a program for types of queues
4 th	1 st	Write a program for types of queues
	2 nd	Implement of singly linked list operations
5 th	1 st	Write a program to create & manipulate circular & doubly linked lists
	2 nd	Write a program to create & manipulate circular & doubly linked lists
6 th	1 st	Implement queue & stack operations using linked lists
	2 nd	Implement queue & stack operations using linked lists
7 th	1 st	Implementation of Binary tree operation
	2 nd	Implementation of Binary tree operation
8 th	1 st	Develop programs for types of binary trees
	2 nd	Develop programs for types of binary trees
9 th	1 st	Implementation of graph representation
	2 nd	Implementation of graph representation
10 th	1 st	Basic graph traversals

	2nd	Basic graph traversals
11th	1 st	bubble sort
	2 nd	selection sort
	1 st	Insertion sort
12th	2nd	Merge sort
	1 st	quick sort
	2nd	Write a programs for searching using binary search trees and hash tables
13th	1 st	Write a programs for searching using binary search trees and hash tables
	2nd	Implementation of symbol table operation using balanced search trees
	1 st	Implementation of symbol table operation using balanced search trees
14th	2nd	Revision
	1 st	

Monalisa Sethi

Signature of faculty