LESSON PLAN

SUB: DATA STRUCTURES & ALGORITHMS LAB BRANCH:- COMPUTER SCIENCE& ENGG. SEMESTER:3rd NAME OF FACULTY: ABHISHEK PADHI (GF in CSE)



GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2025-26

Hed.CSE

Academic Co-ordinator

Academic Co-ordinator

Govt. Polytechnic, Bhadrak

DEPARTMENT OF Computer Science & Engg,,

Subject: Data Structure & Algorithms Lab (Pr-3)	Semester:3rd Winter/2025 No. of Days/week:04	Name of the faculty: ABHISHEK PADHI Email Id: abhishekpadhi24@gmail.com StartDate:14/07//2025 EndDate:15/11/2025
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Weel	k Class Day	Practical Topics
st	1st	Write a program to analyze & compare the time complexity of basic operations on arrays & linked lists
	2nd	Implementation of Stack anaptics
2nd	1st	Implementation of Stack operation using arrays & linked lists Implementation of Stack operation using arrays & linked lists, Develop programs for application of stack
	2nd	Develop programs for application of stack
3rd	1st	Implement queue energiance and stack
	2nd	Implement queue operations using arrays & linked lists Implement queue operations using arrays & linked lists, Write a program for types of queues
4th	lst	Write a program for types of queues
	2nd	Implement of singly linked list operations
5th	1st	Write a program to greate & married by
3111	2nd	Write a program to create & manipulate circular & doubly linked lists
6 th	1 st	Write a program to create & manipulate circular & doubly linked lists Implement queue & stack operations using linked lists
	2 nd	Implement queue & stack operations using linked lists
7 th	1st	Implementation of Binary tree operation
	2nd	Implementation of Binary tree operation
th	1 st	Develop programs for types of binary trees
	2 nd	Develop programs for types of binary trees
-la	1 st	Implementation of graph representation
h	2 nd	Implementation of graph representation
th	1 st	Basic graph traversals
	2nd	Basic graph traversals
th	1 st	bubble sort
	2 nd	selection sort

12th	12	Insertion sort
	2nd	Merge sort
13th 1st 2nd	18	quick sort
	2nd	Write a program C
14th 1st 2nd	14	Write a programs for searching using binary search trees and hash tables Write a programs for searching using binary search trees and hash tables
	2nd	Implementation of symbol table
th	1 st	Implementation of symbol table operation using balanced search trees Implementation of symbol table operation using balanced search trees
	2nd	Revision

Abhishek Padhe' Signature of faculty