## LESSON PLAN

SUB: DATA STRUCTURE BRANCH:- COMPUTER SCIENCE& ENGG. SEMESTER:3RD NAME OF FACULTY: ABHISHEK PADHI (GF in CSE)



## GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2025-26

Hod ,CSE

Academic Co-ordinator

Academic Co-ordinator

Govt. Polytechnic, Bhadrak

Discipline: Computer Science and Engineering	Semester:3 <sup>rd</sup> ,Winter/2025	Name of the Faculty: Mr. ABHISHEK PADHI,	
		Lecturer EmailID:abhishekpadhi24@gmail.co	
Subject: Data Structure, Theory-3	No .of Days/week:04	StartDate: 14/07/2025 End Date: 15/11/2025	

Week	Class Day	Theory Topics
lst	lst	Introduction to data structure
	2nd	Basic Terminology
	3rd	Classification on data structure
2nd	lst	Explain different operations on data structure
	2nd	Explain Asymptotic analysis of algorithm
	3rd	Explain worst-case analysis of algorithm
	lst	Stack-introduction to stack
	2nd	Array representation of Stacks
	3rd	Operation & application of stacks
-	lst	Infix-to-Postfix Transformation
	2nd	Queues, Array representation of Queues
	3rd	Operation & types of Queue, Application of queue-round robin algorithm.
	lst	Queues, Array representation of Queues

	214	Operation & types of Queue, Application of queue-round robin algorithm.
	3rd	Linked list & Operation on a linked list
coh	lst	Circular linked list
	Dod	Doubly linked lists
	3rd	Operation on a single link list
	14	Circular linked list
	2nd	Doubly linked lists
	3rd	Operation on a single link list
R <sub>W</sub>	lst	Linked list & Operation on a linked list
	2nd	Circular linked list
	3rd	Doubly linked lists
8th	lst	Linked list & Operation on a linked list
	2003	Non-linear data structure
	3rd	Tree-Basic Terminologies
104	lst	Concept of Binary trees
	2nd	Representation of Binary trees using Arrays
	3rd	Concept of Graphs
	lst	representation of Graphs-Set
	2nd	representation of Graphics Linked
	3rd	representation of Graphs-Matrix
27	Ist	Tree-Basic Terminologies
	2nd	Concept of Binary trees
	3rd	Representation of Binary trees using Arrays
30	lst	Revision
	2nd	Assessment
	3rd	Quiz Test
\$ A.	lst	Previous year Questions
	2nd	Previous year Question
	3rd	Previous year Question
15th	lst	Revision
	2nd	Revision
	3rd	Quiz Test

