GOVERNMENT GIRLS POLYTECHNIC BILASPUR

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN

Session : July-Dec 2025

Session start date as per University Calendar- 29/09/2025

Course Name : DATA STRUCTURE

Name of Subject teacher : **Mrs ASHA MIRI**

Lecture plus Tutorial/Week : 3

Subject Code : 2022373(022)

LESSON PLAN		
SESSION - July-Dec 2025		
Discipline : CSE	**Semester : 3rd**	**Class room Instruction Start Date :-09/10/2025**
Chapter/Unit No.	**Topics/Subtopics to be covered under this unit**	**No. of periods planned**
Chapter-1 To manipulate linear Data Structure using C Programming	Introduction to data structure	2
	Types of data structure	
	Declaring and initializing one dimensional array	1
	Array operations-Insertion Searching	1
	Multidimensional Array and its matrix operation	1
	Drawback of linear array	1
	Character Array and String Array	
	Assignment Given Date-	
Chapter-2 Apply Linear Data Structure Stack and Queue in different applications	Introduction to Stack	1
	Operation on stack	
	Implementation of stack	1
	Application of stack	1
	Expression evaluation	2
	Infix to Postfix	
	Infix to Prefix	
	Recursion	1
	Introduction to queue	1
	Types of queue	2
	Single ended queue	
	Circular queue	
	Double ended queue	
	Implementation of queue	1
	Application of queue	
	Assignment Given Date-	

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Chapter-3 Develop program in C using Pointer Structure and union for accessing memory	Introduction and features of pointers	1
	Declaration of pointer	
	Operations on pointer	1
	Array of pointers	1
	Pointers to pointers	
	Passing array to function	1
	Introduction and features of structure and union	
	Declaration of structure and union	2
	Operations on structure and union	
	Array of structure and union	
	Assignment Given Date-	
Chapter-4 Perform basic operation of insertion , deletion and searching on Linked list	Introduction of linked list node	1
	Types of linked list	2
	Singly linked list Doubly linked list	
	Operation on linked list	2
	searching Insertion and Deletion	
	Application of linked list	1
	Assignment Given Date-	
Chapter-5 Perform basic operation of insertion , deletion and searching on Graph and Tree	Definition of graph	2
	Representation of graph	
	Introduction of tree	1
	Types of treeBinary tree	2
	Binary Search Tree	
	Operation on BST	2
	Insertion deletion	
	Traversing	1
	Assignment Given Date-	
	Total Period	**36**

Class room Instruction End date:

Subject Teacher : Asha Miri

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