VIKASH INSTITUTE OF TECHNOLOGY, BARGARH

LESSON PLAN

Semester: 2ND		**Year: 2025**	**Course: B.Tech**
Branch : CSE		**Sub: Prog.in C & DATA STRUCTURE** **Sub Code :**	**Total Credit:03**
Name of the Faculty:		**LOVELY RATH**	
Designation :		**ASST. PROFESSOR**	
Department :		CSE	
Session		**2024-25**	
Recommended Books		**Text book:** **1. Programming in C by Pradeep Dey,Oxford Publication** **2** **Reference Books:** **1. Let us C By Yashwant Kanetkar, BPB Publication** **2**	
Sl. No.	**Lecture No.**	**Topics to be covered**	**No. of Classes**
		MODULE-1	
1	Lecture-01	problem solving processes:Algorithms,flow chart,C as a middle level language Structure of C	**8**
2	Lecture-02	structure of c	
3	Lecture-03	characters set,keywords,identifiers,	
4	Lecture-04	data types,constants,variables,statements	
5	Lecture-05	input&output statements,operators,expression	
6	Lecture-06	precedence of operators	
7	Lecture-07	control structure and its types	
8	Lecture-08	for,do-while,while,switch case.	
		MODULE-2	
9	Lecture-09	function defination and its types,build in,User defined	
10	Lecture-10	Recursive functions	
11	Lecture-11	Array and its type,1-D,2-D	
12	Lecture-12	charater array and string array	
13	Lecture-13	character array……continued	10
14	Lecture-14	matrix operation	
15	Lecture-15	matrix operation related program practice	
16	Lecture-16	string passing array to function	
17	Lecture-17	structure & union	
18	Lecture-18	structure&union	

MODULE-3			
19	Lecture-19	pointer arithemetics,parameter passing using pointers	
20	Lecture-20	call by value and call by reference	
21	Lecture-21	passing parameter, pointer to pointer	
22	Lecture-22	Pointer to function, pointer to structure	
23	Lecture-23	Array and Pointer difference	
24	Lecture-24	Static Vs Dynamic memory allocation	
25	Lecture-25	Pointer variable	
26	Lecture-26	Dynamic memory allocation functions	
27	Lecture-27	Dynamic memory allocation functions type (Malloc (), Calloc ())	9
MODULE-4			
28	Lecture-28	Introduction to data strcuture	
29	Lecture-29	Linear Linked list creation	
30	Lecture-30	Insertion, deletion	
31	Lecture-31	Stack	
32	Lecture-32	Stack application (Infix to postfix)	
33	Lecture-33	Queue (Linear and Circular)	
MODULE-5			
34	Lecture-34	Tree, Binary search tree, sorting (Bubble & Quick)	8
35	Lecture-35	Searching (Linear & Binary)	

Signature of Faculty Member **Signature of HOD**

PRINCIPAL