

STATE INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Applied Science

LESSON PLAN

Teachers Name: Nisha Raheja

Subject Name:-Programming for problem solving

Year:-1st Year

Subject Code: B23-ESC 101

Semester:-2nd

Lecture No	Unit No	Topic	COs Covered
L 1	Unit-I	Introduction to Programming	CO1
L 2		Introduction to components of a computer system	
L 3		Disks, Memory	
L 4		Processor,	
L 5		Operating System, Compilers	
L 6		Algorithm Writing	
L 7		Flowchart,	
L 8		Pseudocode with examples	
L 9		From algorithms to programs.	
L 10		C language variables	
L 11		Revision	
L 12	Unit-II	Home Assignment 1	CO2
L 13		Data Types	
L 14		Syntax and Logical Errors in compilation	
L 15		Object and Executable code	
L 16		Operator- Arithmetic	
L 17		Relational and Logical	
L 18		Revision	
L 19		Home Assignment 2	
L20		Bitwise operator and Precedence	
L21		Conditional Branching	
L22		Object and Executable code	
L23		Loops	

L24	Unit-III	Arrays(1D-2D)	CO3
L25		Character arrays and strings	
L25		Defining Structures and array of structure	
L26		Revision	
L27		Pointers	
L28		Idea and defining pointers	
L29		Use of pointers in self referential structures	
L30		Notion of linked list	
L31		Functions (including using built in libraries)	
L32		Parameter passing in function	
L33		Revision	
L34	Unit-IV	Home Assignment 3	CO4
L35		Call by value	
L36		Call by reference. Difference between call by value and call by reference	
L 37		Introduction to Recursion, Implementation of recursion	
L 38		Recursion based Program to find factorial of a number.	
L 39		Recursion based Program to print Fibonacci series.	
L40		Revision	
L 41		What is file handling in C, need of file handling	
L 42		File Pointer, File operations: Reading a file	
L 43		File modes, Writing to a file	
L 44		Error handling	
L45		Revision	
L46		Home Assignment 4	

Text Books:

1. Byron Gottfried, Schaum's Outline of Programming with C, McGraw-Hill.
2. E. Balaguruswamy, Programming in ANSI C, Tata McGraw-Hill.
3. Brian W. Kernighan and Dennis M. Ritchie, The C Programming Language, Prentice Hall of India.

Web resources:

1. https://onlinecourses.nptel.ac.in/noc21_ee10/preview
2. <https://web.iitd.ac.in/~shouri/eel201/lectures.php>