

Lesson Plan

Name of the Faculty : MR. SAHARSH GERA (THEORY + PRACTICAL)
 Discipline : Computer Science and Engineering
 Semester : 1ST
 Subject : PPS (ESC-CSE101G)
 Lesson Plan Duration : 15 Weeks (from DEC., 2020 to MAR, 2021)

**** Work Load (Lecture/ Practical) per week (in hours):** Lecture-04, Practical-01

Week	Theory		Practical	
	Lecture day	Topic(Including assignment/test)	Practical Day	Topic
1 st	1 st	Introduction to Programming	1 st	Familiarization with programming environment
	2 nd	Idea of Algorithm		
	3 rd	Steps to solve logical and numerical problems		
	4 th	Representation of Algorithm		
2 nd	1 st	Flowchart/Pseudocode with examples	2 nd	Simple computational problems using arithmetic expressions
	2 nd	C Programming		
	3 rd	Keywords, Variables and Data Types		
	4 th	basic, derived and user defined, Type Conversions + (ASSIGNMENT 1)		
3 rd	1 st	Header Files	3 rd	Problems involving if-then-else structures
	2 nd	Basic Input and Output Functions and Statements		
	3 rd	Compilation		
	4 th	Syntax and Logical Errors in compilation		
4 th	1 st	Object and Executable Code	4 th	Iterative problems e.g., sum of series
	2 nd	Storage Classes		
	3 rd	Arithmetic Expressions and Precedence		
	4 th	Revision of 1 st unit + (ASSIGNMENT 2)		
5 th	1 st	Preprocessors	5 th	Iterative problems e.g., sum of series
	2 nd	Conditional and Branching Statements		

	3 rd	Loops/ Iterative Statements		
	4 th	Writing and evaluation of conditionals		
6 th	1 st	consequent branching	6 th	1D Array manipulation
	2 nd	Revision of 2 nd unit.		
	3 rd	Arrays (1-D, 2-D)		
	4 th	Character Arrays and Strings + (ASSIGNMENT 3)		
7 th	1 st	Arrays with Pointers	7 th	Matrix problems, String operations
	2 nd	Functions (including using built in libraries)		
	3 rd	Parameter passing in functions		
	4 th	Call by Value		
8 th	1 st	Call by Reference	8 th	Simple functions
	2 nd	Passing arrays to functions		
	3 rd	Recursion		
	4 th	as a different way of solving problems + (ASSIGNMENT 4)		
9 th	1 st	Example programs, such as Finding Factorial, Fibonacci series, Ackerman function etc	9 th	Programming for solving Numerical methods problems
	2 nd	Revision of 3 rd unit.		
	3 rd	Idea of pointers		
	4 th	Defining pointers		
10 th	1 st	Use of Pointers in self-referential structures	10 th	Programming for solving Numerical methods problems
	2 nd	Introduction to Dynamic Memory Allocation and its Methods		
	3 rd	Structures, Union		
	4 th	Defining Structures and Array of Structures		
11 th	1 st	File Handling + (ASSIGNMENT 5)	11 th	Recursive functions
	2 nd	Revision of 4 th unit.		
	3 rd	Overall Revision		
	4 th	Overall Revision		