

Structured Programming Course Outline

Course: Structured Programming + LAB

Course Code: CSE 121 + CSE 122

#	Topics
1	Introduction to Structured Programming
2	Data Types and Basic Keywords with Statement, Components of C programming, Create and Compile a C program, Declare and Assign Variable, Data Type, Keywords
3	Data Type and Size, Type Modifiers (long, unsigned, etc.) Type Cast, Standard Library Functions, User Input, Output, Address (&), Expressions, Operators, Arithmetic Operators, Bitwise Operators, Modulo Operator
4	Program Control Statement, Blocks, If, Else If and Else, Relational Operators, Conditional Operators / Ternary Operators, Short Circuit Behavior of Logical Operators, Switch
5	Nested If, Else If, Else Loop: For Loop, While Loop, Do While Loop, Continue, Break, Nested Loop, Nested For, Nested While, Printing Stars, Numbers
6	Arrays, Multidimensional Arrays
7	Strings, String Standard Library
8 - 9	Introduction to programming contests & Online Judges
10	Pointers: Pointers, Pointers of Arrays
11	Functions: Function with Arguments, Function Prototyping
12	Functions: Function pass by value & reference, recursion
13	Structures and Unions
14	File I/O
15	C Library Functions
16	Project

