

C Syllabus

Day 1-

1.PROGRAM STRUCTURE

- Hello World Example**
- Compile and Execute C Program**

2. BASIC SYNTAX

- Tokens in C**
- Semicolons**
- Comments**
- Identifiers**
- Keywords**

3.DATA TYPES

- Integer Types**
- Floating-Point Types**
- The void Type**

4. VARIABLES

- Variable Definition in C**
- Variable Declaration in C**

5.CONSTANTS AND LITERALS

- Integer Literals**
- Floating-point Literals**
- Character Constants**
- String Literals**
- Defining Constants**

Day 2-

6.SCOPE RULES

- Local Variables**
- Global Variables**
- Formal Parameters**
- Initializing Local and Global Variables**

7.STORAGE CLASSES

- The auto Storage Class**
- The register Storage Class**
- The static Storage Class**
- The extern Storage Class**

Day 3-

8.OPERATORS

- Arithmetic Operators**
- Relational Operators**
- Logical Operators**
- Assignment Operators**
- Misc Operators** ⇨ **sizeof & ternary**

Day 4-

9.DECISION MAKING

- if Statement**

if...else Statement
if...else if...else Statement
Nested if Statements
switch Statement
The ? : Operator

Day 5-

10.LOOPS

while Loop
for Loop
do...while Loop
Nested Loops
Loop Control Statements
break Statement
continue Statement
goto Statement
The Infinite Loop

Day 6-

11.FUNCTIONS

Defining a Function
Function Declarations
Calling a Function
Function Arguments
Call by Value
Call by Reference

Day 7-

12. ARRAYS

Declaring Arrays
Initializing Arrays
Accessing Array Elements
Arrays in Detail
Multidimensional Arrays
Two-dimensional Arrays
Initializing Two-Dimensional Arrays
Accessing Two-Dimensional Array Elements

Day 8-

13.POINTERS

What are Pointers?
How to Use Pointers?
Pointers in Detail

Day 9-

14.STRING FUNCTIONS

Day 10-

15.STRUCTURES

16. UNIONS