

CLANGUAGE - SYLLABUS

1. Introduction:

- > Introduction to C
- > Environment Setup
- ➤ Basic I/O

2. Variables:

- Creating & Declaring a Variables(Syntax)
- Naming a Variable
- Change Variable Values
- Add Variables Together

3. Data Types:

- > Data types in C
- Format Specifiers

4. Constants & Literals:

> Syntax for Constant & Literals

5. Storage Classes:

- > Types of Storage Classes
 - Automatic
 - External
 - Static
 - Register

6. Type Casting:

- Implicit type Casting
- Explicit type Casting

7. Operators:

- > Arithmetic Operator
- > Relational Operator
- > Equality Operator
- > Assignment Operator



- Logical Operator
- > Shorthand Operator
- Conditional Operator
- Comment Line Operator

8. Conditional Branching Control Statements:

- ➤ If-Else
- Switch-Case

9. Conditional Looping Control Statements:

- > While
- Do-While
- > For

10. Unconditional Control Statements:

- Break
- Continue
- ➢ Goto

11. Arrays:

- Array Declaration(Syntax)
- > Array Initialization
- Multi-Dimensional Array
- Character Array
- ➤ Initializing Character Array

12. Strings:

- Access String
- String Functions
 - String Length
 - Copying String
 - Concatenating String
 - Comparing String
 - Reversing a String
 - Ascending a String

13. Pointers:



- Pointer Expression
- > Arrays with Pointers
- Pointer with Functions
- 14. Call by value & reference
- 15. Compound Data Types:
 - > Struct
 - Union
 - > Enum
 - > Typedef
- 16. Pre-processor Directive:
- 17. I/O Functions:
 - C Functions
 - > FunctionDeclaration
- 18. File I/O:
 - Opening a File
 - Closing a File
 - > Reading a File
- 19. Multiple file Compilation
- 20. Header Files
- 21. Dynamic Memory Management
- 22. Error Handling
- 23. GNU GCC Compiler:
 - > Environment Setup
- 24. Creating Libraries & Files
- 25. Project