C Language Syllabus

What is C ?

1. Execution of C Program
2. History
3. Structure of C Program

Variables and Keywords

1. Character Set
2. Identifier
3. Variable
4. Keywords
5. Escape Sequence Characters

Constants

1. Real Constant
2. Integer Constant
3. Character Constant
4. String Constant

Data Types

1. Data Types
2. Qualifier
3. Enum
4. Typedef

Operators

1. Assignment Operator
2. Arithmetic Operators
3. Logical Operators
4. Relational Operators
5. Shorthand Operators
6. Unary Operators
7. Conditional / Ternary Operator
8. Biwise Operators
9. Operator Precedence and Associativity
10. If Statement
11. If-Else Statement
12. Nested If-Else
13. Switch Case

Looping Statements

1. Looping / Iterative Statements
2. while
3. do while
4. for loop
5. Break Statement
6. Continue Statement
7. Goto

Storage Classes

1. Storage Classes
2. Automatic Storage Class (auto)
3. Register Storage Class (register)
4. Static Storage Class (static)
5. External Storage Class (extern)

Array

1. Array
2. Single / One Dimensional Array
3. Two Dimensional Array

Structure

1. Structure
2. Array in Structures
3. Structure with Array
4. Difference between array and structure

Pointer

1. An Introduction to Pointers
2. Pointer Notation in C Language
3. Back to Function Calls in C Language with practical
4. Recursion in C Language with practical
5. Summary

Union

1. Union
2. Difference between structure and union
3. Strings
4. File Handling

File Handling

1. File Input/Output in C Language with practical
2. File Operations in C Language with practical
3. Opening a File in C Language with practical

4. Reading from a File in C Language with practical
5. Closing the File in C Language with practical
6. Counting Characters, Tabs, Spaces, with practical
7. A File-copy Program in C Language
8. Writing to a File in C Language with practical
9. File Opening Modes
10. String (line) I/O in Files
11. Summary