



## Syllabus for "C Language– introduction"

### Course Outlines:

#### What is C ?

- Execution of C Program
- History
- Structure of C Program

#### Variables and Keywords :

- Character Set
- Identifier
- Variable
- Keywords
- Escape Sequence Characters

#### Constants :

- Real Constant
- Integer Constant
- Character Constant
- String Constant

#### Data Types :

- Data Types
- Qualifier
- Enum
- Typedef

#### Operators :

- Assignment Operator
- Arithmetic Operators
- Logical Operators
- Relational Operators
- Shorthand Operators
- Unary Operators
- Conditional / Ternary Operator
- Biwise Operators
- Operator Precedence and Associativity



- If Statement
- If-Else Statement
- Nested If-Else
- Switch Case

## Looping Statements

- Looping / Iterative Statements
- while
- do while
- for loop
- Break Statement
- Continue Statement
- Goto

## Functions :

- Function call by passing value
- Function call by returning value
- Function call by passing and returning value
- Recursion

## Storage Classes :

- Storage Classes
- Automatic Storage Class (auto)
- Register Storage Class (register)
- Static Storage Class (static)
- External Storage Class (extern)

## Array :

- Array
- Single / One Dimensional Array
- Two Dimensional Array

## Structure :

- Structure
- Array in Structures
- Structure with Array
- Difference between array and structure



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## **Pointer:**

### **Union :**

- Union
- Difference between structure and union
- Strings
- File Handling

### **Header Files :**

- Header File
- Assert.h
- Ctype.h
- Math.h
- Process.h
- String.h
- Time.h

