C- Language Course Content

Unit-1: Introduction

Introduction to programming languages

Types of Languages

Brief History of C Programming Language

'C' Program development life cycle

Role of interpreter

Role of compiler

Structure of a 'C' Program

Writing C Programs

Building an Executable Version of a C Program

Debugging a C Program

Running a C Application Program

Unit-2: Keywords

Keywords and Identifiers

Operators

Variables

Data Types

Constants

Precedence of Operators

Scope and Lifetime of Variables

Unit-3: Control Statements

Intro for Control Statements

if.....else Statement

if...else ladder

Nesting of if.....else Statements

Switching Statements

Programming Exercises on Control statements

Unit-4: Looping Statements

Introduction to loops

Range Based Loops

Conditional Based Loops

do-while Statement

while statement

for Statements

break statements

continue statements

Unit-5: Arrays

Introduction of Array

Arrays Declaration

Arrays Initialization

Sample Programs using Arrays

One - D Array

Two - D Array

Multidimensional Array

Unit-6: String Handling

Introduction to Strings

Implementing String Variables

String Handling Functions

Programs on Strings

Unit-7: Functions

Introduction to Functions

Functions Basics

Advantages of Functions

Pre-defined Functions

User-defined Functions

Function Parameters

Recursion