

ASP.NET & C#.NET SYLLABUS



C Programming

INTRODUCTION

- The C Language and its Advantages
- The Structure of a C Program
- Writing C Programs
- Executing a C Program

DECISION MAKING & LOOPING

- Decision Making Statements (If, If...Else, If...Else If...Else)
- Nesting of If...Else
- Switch Statements
- GOTO
- Statements
- Looping Statements
- (While, Do...While, For)
- Jumps in Loops
- Nesting of Loops

OPERATORS & EXPRESSIONS

- Arithmetic Operators
- Relational Operators
- Logical Operators
- Assignment Operators
- Increment and Decrement Operators
- Ternary Operator
- Arithmetic
- Expressions
- Precedence of Operator

USER DEFINED FUNCTIONS

- Need for User Defined Functions
- Function Declaration
- Defining a Function
- Return Values and Types
- Categories of Functions
- Recursion
- Passing Arrays to Functions
- Passing String to Functions

- Scope, Visibility, and Lifetime of Variables

POINTERS

- What is a Pointer?
- Accessing the address of a Variable
- Declaring Pointers Variables
- Accessing a Variable through its Pointer
- Pointers and Arrays
- Pointers and Character String Array of Pointers
- Pointers as Function Arguments

ARRAYS & STRINGS

- One Dimensional Arrays
- Two Dimensional Arrays
- Initialization of Arrays
- Declaring and Initializing
- String Variables
- Reading and Writing Strings
- String Handling Functions
- Table of Strings

CONSTANTS, VARIABLES & DATATYPES

- Keywords and identifiers
- Constants
- Variable
- Data Types
-

C++ Programming

INTRODUCTION

- Concepts of Object Oriented Programming
- Benefits of OOP
- What is C++
- Structure of C++ Program
- Creating the Source File
- Compiling and Linking

CLASSES & OBJECTS

- Specifying a Class
- Defining Member Functions
- Making an Outside Function Inline
- Nesting of Member Functions
- Private Member Functions
- Arrays within a Class
- Memory Allocation for Objects
- Static Data Members
- Static Member Functions
- Arrays of Objects
- Objects as Function Arguments
- Friendly Functions
- Returning Objects
- Pointer to Members

OPERATORS & EXPRESSIONS

- Operators in C++
- Scope Resolution Operator
- Member Dereferencing Operators
- Memory Management Operators
- Manipulators
- Type Cast Operator
- Expressions and Types of Expressions
- Special Assignment Expressions
- Implicit Conversions
- Operator Overloading
- Operator Precedence
- Control Structures

OPERATORS OVERLOADING

- Defining Operator Overloading
- Overloading Unary Operators
- Overloading Binary Operators
- Overloading Binary Operators using Friends
- Manipulation of Strings using Operators
- Rules of Operator Overloading

- Type Conversion

VIRTUALS FUNCTIONS & POLYMORPHISM

- Polymorphism Overview
- Virtual Functions
- Pure Virtual Functions

EXCEPTION HANDLING

- Basics of Exception Handling
- Exception Handling Mechanism
- Throwing Mechanism
- Catching Mechanism

FUNCTIONS IN C++

- Function Prototyping
- Call by Reference
- Return by Reference
- Inline Functions
- Default Arguments
- Recursion
- Function Overloading
- Friend and Virtual Functions

CONSTRUCTORS & DESTRUCTORS

- Constructors

- Parameterized Constructors
- Multiple Constructors in a Class
- Constructors with Default Arguments
- Dynamic Initialization of Objects
- Copy Constructor
- Dynamic Constructors
- Destructors

INHERITANCE

- Defining Derived Classes
- Single Inheritance
- Types of Inheritance
- Virtual Base Classes
- Abstract Classes
- Constructors in Derived Classes
- Member Classes

MANIPULATING STRINGS

- Creating String Objects
- Manipulating String Objects
- Relational Operations
- Accessing characters in String
- Comparing and Swapping

CONSTANTS, VARIABLES & DATATYPES

- Keywords and identifiers
- Tokens
- Data Types
- Type Compatibility
- Variable Declaration
- Dynamic Initialization of Variables

HTML

HTML - Introduction

- HTML - Elements
- HTML - Tags
- HTML - Text
- HTML - Formatting
- HTML - Pre
- HTML - Attributes
- HTML - Font
- HTML - Text Links
- HTML - Comments
- HTML - Lists
- HTML - Images
- HTML - Image Links
- HTML - Tables
- HTML - Bgcolor
- HTML - Color Codes
- HTML - Color Chart
- HTML - Background
- Web Forms
- HTML - Forms
- HTML - Input
- HTML - Text Fields
- HTML - Password
- HTML - Reset
- HTML - Submit
- HTML - Checkboxes
- HTML - Radio
- HTML - Select
- HTML - Hidden Fields
- HTML - Upload

- HTML - Textarea
- Special Tags
- HTML - Body
- HTML - Meta
- HTML - Style
- HTML - Div
- HTML - Layouts
- HTML - Frames
- Formatting Tags
- HTML - Bold
- HTML - Paragraphs
- HTML - Headings
- HTML - Line Breaks
- HTML - Horizontal Rule
- HTML - Email
- HTML - Italic
- HTML - Code
- HTML - Superscript
- HTML - Subscript
- HTML – Strikethrough

CSS

CSS Introduction

- CSS Syntax
- CSS Id & Class

- CSS How

CSS Styling

- Styling Backgrounds

- Styling Text
- Styling Fonts
- Styling Links
- Styling Lists
- Styling Tables

CSS Box Model

- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating

- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Align

JAVASCRIPT

Introduction

- JavaScript Overview
- JavaScript Syntax
- Type of JavaScript
- Embedding Script In HTML File
- Variable

Operators

- Arithmetic
- Logical
- Comparison
- Assignment
- Conditional

Conditional Statement & Looping Statement

- If
- If. Else
- Switch
- While
- Do/while

- For

Function & Object

- Passing Parameter to function
- Returning a value from function
- Creating Object
- Accessing Object Properties &

Method

- Array Object
- String Object
- Date Object
- Math Object
- Window Object
- Navigator Object

Event Type

- Mouse Events
- Frame/Object Events
- Form Events

INTRO TO WEB PROGRAMMING

- What is internet, Web Site, Web Request, Web Response
- Client side web technologies (vs.) Server side web technologies
-

ASP.NET PAGE LIFE CYCLE

- Page life cycle Architecture
- Page events

ASP.NET IMPLICIT OBJECTS

- Request, Response

ASP.NET WEB CONTROLS

- Intro to ASP.NET Web Controls Standard Web Controls
- Post back
- Validation Controls

ADO.NET with ASP.NET

- ADO.NET Architecture

- Advantages of ADO.Net
- Connected and Disconnected Data Access Architecture
- CRUD operations Using SQL Server Connection, Command, Data Reader, Data Adapter & Data Set classes to manipulating data from database using ASP.net webpage
- Executing Queries, SQL Statements, Stored Procedures
- Handling Tables in Data Set

STATE MANAGEMENT

- Session
- Application
- Query String
- View State
- State-less (vs.) State-full
- Response.Redirect (vs.) Server.Transfer
- Session state modes

- Global.asax

ASP.NET SECURITY

- Authentication
- Authorization

MASTER PAGES

- Creating master pages and content pages
- Working with Content Place Holders

THEMES AND SKINS

- Creating themes
- Creating .css and .skin files
- Applying themes dynamically

WEB USER CONTROLS

- How to create our own control

IIS AND DEPLOYMENT

- Installing and configuring IIS
- Creating IIS Application
- Deploying Web Sites into Local IIS

CACHING

- Data Caching
- Output caching

INTERNATIONALIZATION

- Globalization (vs) Localization
- Creating Global resources
- Applying culture dynamically

ASP.NET AJAX EXTENSIONS

- Script Manager, Update Panel, Timer

ASP.NET AJAX CONTROL TOOLKIT

- How to download and import
- Toolkit Script Manager

WEB SERVICES

- Creating and consuming Web Services
- Introduction of WPF
- Introduction of WCF

- Introduction of MVC

C#.net

Introduction of .Net

- Introduction to .Net
- What is .Net?
- Advantages and architecture of the .NET Framework
- Languages used in .Net

.Net Framework [Advanced]

- Introducing the .Net framework.
- What is .Net framework?
- CLR
- Class Library?
- JIT Compiler
- Garbage Collection

C#.Net language

- What is C#.Net
- Comparing C# to C++ and Java.
- Why C#
- Features of c#

- C# Sample Programs.
- .Net Namespaces

Programming of C#

- Variables
- Operators
- Expressions
- Data Types
- Type conversions
- Boxing and Unboxing.
- Access Specifiers
- Debugging our own code

Branching and Flow Control

- Conditional Branching (If statements and Switch case statement)
- Repeating Code Blocks(While, Do While, Switch)

Working with Arrays

- Introducing Arrays
- Manipulating Arrays
- Single, Multiple and Jagged Arrays
- Arrays as Collections

Object-Oriented Programming

- Object & Classes
- Constructors and Initialization, Destructor
- Methods
- Method Overloading
- Method Overriding
- Static Members
- Constant and Read-only
- Inheritance
- Working Abstract Classes and Interfaces
- Delegates
- Properties
- Auto-Implemented Properties

Collection and Generics

- Array List, Hash Table
- Working with Dictionaries, Stacks, and Queues

- Generics and Arrays
- Generics and Lists

Exception Handling

- Exception Fundamentals
- User-Defined Exception Classes

C# Graphical User Interface

- Introduction to Windows Forms
- Standard Winform Controls
- Properties, Events of each Winform Controls
- Dialog Boxes
- Menus, Progress Bar
- MDI Forms

Winform With Real time windows application like Calculator and Notepad

ADO.NET

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Introduction of Entity Data Model and example that illustrate EDM

Reporting

- Install crystal report for visual studio 2012
- How to use crystal report for windows form
- Generate report .

Globalization in Windows Form

- How to use resource file for Multilanguage application

Introduction of LINQ and how to use linq

We are also providing training on Core & Adv java, Android, Web Designing, Graphics designing, PHP & MySQL training, C & C++ Programing, asp.net & C#.net & Final year project for computer science student.

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