

# ASP.NET & C#.NET SYLLABUS



## 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
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## **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

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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**



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