

Syllabus of C# and ASP.Net

Duration: 80 Hrs

Introduction: -

(1 ½ Hrs)

What is Internet? , What is HTML? , What is a Web Page? , What is Website? , Benefits of creating a website, how does Website work? , Difference Between static Website and Dynamic Website, about this course, Introduction to markup syntax <opening> </closing>

HTML TAGS

(3 Hrs)

(1)html (2)body (3) head(4) meta (5) title (6) table (7) h1 to h6 headings (8) <p> paragraph (9) div (10) span (11)font (12)script (13) img (14) input (type =text,file,hidden,button,submit,password,email,date) (15) anchor<a> (16)ul (17) ol (18) attr (19)header (20) footer (21)nav (22) video (23) bold (24)<i> italic (25) <u> Underline(26) strong (27)form (28)
 (29) <hr/> (30)<sup> superscript(31) <sub> subscript (32) marquee (33)small (34) quotes (small, block) (35)address (36) article (37) section (38) iframe and frame (39)aside(40)code
Comments in html,

Style Sheet

(3 Hrs)

Why StyleSheet? Types of StyleSheet, Priority of stylesheet, Difference Between inline, internal and external stylesheet, Difference Between Percentage(%), Pixels (px) and (em) and some more units, What is class? (.example), What is Id Selector (#), Style Sheet On a Particular Tag Type, Introduction to responsive Design through MediaQuery(screen, print).

Assignment 1

(3 Hrs)

Design a Complete **Home** Page and **Login** Page by using html and CSS and put some media query to make it responsive.

JavaScript

(9 Hrs)

Introduction to Client End Programming, Why do we use client end programming language?, Benefits of Client End Programming, Introduction to JavaScript, Internal JavaScript external JavaScript, Variable, operator, datatypes, scope of variables, control statements (if, else, switch, break, continue), Loops, Array, Functions, Objects, Comments, working on date functions and string functions, Introduction to JSON.

Jquery

(6 Hrs)

Introduction to javascript library (Jquery), About compressed- uncompressed Jquery, What is CDN?, Jquery functions like animate(),fadeout,fadeIn,hide,show,slideUp,slideDown,toggle,css,addClass,val, Text,on,autocomplete,accordion

Introduction to .Net Framework

(1 ½ Hrs)

What is .Net?, Why .Net?, Version Of Framework, Introduction to CLR ,CLR Architecture, Just In Time Compiler, MSIL (Microsoft Intermediate Language), Common Type System (CTS), Application Domain, Type Of Application in .Net.

Exploring Visual Studio

(1 ½ Hrs)

Create a Project, Building Project, Debugging Project, Solution Explorer, Toolbox, Server Explorer, and Property Window

C# Language Fundamental

(6 Hrs)

Data Type in C# (Value Type, Reference Type) ,Operators in C# ,Conditional Statements (if ,else ,switch, case ,break, continue), Loops(for,while,dowhile,foreach), Type Conversion (Implicit, Explicit), ParseMethods , ToString()

Object Oriented Programming System (OOPS)

(4 ½ Hrs)

Concepts of Classes And Objects, Understanding Oops Concepts (Inheritance, Polymorphism, Abstraction, Encapsulation), Namespace, Access Modifiers, static members and instance members, Method Overloading , Constructors (static constructor, parameterized constructor), Methods, Properties and their types, Event and Delegate, this keyword.

Inheritance in C#

(3 Hrs)

What is Inheritance, Need of Inheritance, Type of Inheritance, interfaces, abstract classes, and abstract methods.

Exception Handling

(1 ½ Hrs)

Difference between Errors, try, catch, throws, finally, Handling Multiple Exceptions, Custom Exception.

Introduction Asp.Net Framework

(1 ½ Hrs)

Need Of web Application, Difference between Client end Server end, Static and Dynamic Page, Difference between Asp and Asp.Net

Server Pages

(1 ½ Hrs)

Creating Server Pages, Architecture of handling request on WebServer, Understanding Page Lifecycle, and UnderstandingPostBack.

Server Controls

(6 Hrs)

TextBox, Label, Button, LinkButton, ImageButton, HyperLink, ListBox, BulletedList, DropDownList, CheckBoxList, RadioButtonList, Image, AdRotator, FileUpload, MultiView, Wizard, HiddenField, Table, Literal etc.

Validation Control

(1 ½ Hrs)

Why Validation Required, RequiredField Validator, Range Validator, Compare Validator, Custom Validator (Javascript), Validation Summary

HttpSession

(1 ½ Hrs)

What is Session, Session Creation and Deletion, Implementation Session Setting in Web.config, Session State using SqlServer, Session State Mode.

QueryString and HttpCookies

(3 Hrs)

Implementation of Query String , Transfer Values Through QueryString, Getting Value by Request Object, Scope, Cookies Creation, Type Of Cookies, Scope Of Cookies, Single Value Cookie, Multi value Cookie, Cookie Life Time and Scope.

ViewState

(1 ½ Hrs)

What is ViewState?, Store Value in ViewState, Get Value from ViewState

Master Pages

(1 ½ Hrs)

Need of Master Pages, Creating a Master Page, Nested Master Page

Microsoft SQL Server

Introduction

(1 ½ Hrs)

Introduction Of Database, Why Database Required?, Database Terms (Table, Column, Row, Keys), Server Explorer, Creation Of Database, Types Of Connectivity's, Inbuilt Project Database, SQL, Introduction T-SQL..

DDL and DML Operations (sql)

(3 Hrs)

CREATE, ALTER, DROP, SP_RENAME, INSERT, UPDATE, DELETE, SELECT, OPERATORS (IN, LIKE, BETWEEN, =, AND, OR, NOT....., IS), NULL VALUE COMPARSION, Constraints (Primary Key, Foreign Key, Unique, Check, Not Null) and Default Value, Joining

Group Functions and Single Row Functions

(3 Hrs)

max(), min(), avg(), count(), sum(), length(), substr(), upper(), lower(), isnull(), case (), getdate(), datename(), datediff(), Convert()etc

Database Miscellaneous (Views (Simple, Complex), Subqueries, EXIST Operator, Backup Database, Restore Database ,Import and Export Database

ADO.Net

(1 ½ Hrs)

Difference Between ADO and ADO.Net, Connection Object, Command Object, DataAdapter Object, DataSet, DataTable, DataRow, DataColumn, DataReader

Data Bound Controls

(3 Hrs)

GridView, DataList, DetailView, SqlDataSource, ListView, ChartControl, FormView, Repeater, Perform Edit, Update, Delete On Above DataControls

Navigation Control

(1 ½ Hrs)

SiteMap Control, Define a SiteMap Xml File, Binding Sitemap Control, TreeView (Static and Dynamic), Menu (Static and Dynamic)

Login Controls

(1 ½ Hrs)

From Authentication And Windows Authentication, CreateUser Wizard Login, LoginName, LoginStatus, LoginView, Password Recovery, ChangePassword

Ajax Extension and Ajax Toolkit

(3 Hrs)

Script Manager, Timer, UpdatePanel , UpdateProgress, Toolkit Controls (Accordion, WatermarkTextBox, FilterTextBox, Calendar, PasswordStrength, AutoComplete, Animate,BallonPopup)