

Syllabus for ASP.NET

Course Duration For ASP .NET Training Course :

- 6 Weeks (Weekday Batches)

Objective For ASP .NET Training Course :

- To Become a ASP.NET Programming Professional

Eligibility For ASP .NET Training Course :

- Bsc, BCS, BCA, BE, B.Tech, MSc, MCS, MCA, M.Tech
- Basic C# programming knowledge

Highlights :

- The Syllabus has been aligned with various top Maharashtra Universities like Pune ,Mumbai, YCMOU,Amravati and Shivaji University
- The syllabus has been aligned with MCTS Certification offered by Microsoft



Microsoft[®]
.NET

Syllabus

ASP.NET

Introduction to .NET

- ✓ Introduction to .NET Framework
- ✓ .NET Advantages
- ✓ Common Language Runtime(CLR)
- ✓ Common Type System (CTS)
- ✓ .NET Framework Class Library (FCL)
- ✓ Microsoft Intermediate Language(MSIL)
- ✓ Just In Time(JIT) Compiler
- ✓ Garbage Collection
- ✓ Phases of Garbage Collection

ASP.NET

- ✓ Introduction of ASP.NET
- ✓ Concept of Web Applications
- ✓ ASP.NET Architecture
- ✓ Page Composition Parts
- ✓ ASP.NET Page Life Cycle
- ✓ Page Life Cycle Events
- ✓ ASP.NET Server Controls
 - HTML Server Controls
 - Web Server Controls

ASP.NET Controls

- ✓ Intrinsic Controls
- ✓ List Controls
- ✓ Rich Controls
- ✓ Validation Controls
- ✓ User Controls & their uses
- ✓ Navigation Controls
- ✓ Login Controls
- ✓ Custom Controls v/s User Controls

Graphics in ASP.Net

- ✓ Introduction to Graphics
- ✓ Graphics in ASP.Net
- ✓ The Graphics Class
- ✓ Dynamic Graphics
- ✓ Basic Drawing
- ✓ Drawing a Custom Image
- ✓ Graphic Objects
- ✓ Placing Custom Images Inside Web Pages
- ✓ Image Format and Quality

Syllabus for ASP.NET



HTML, CSS & Javascript Overview

- ✓ HTML Basics
- ✓ HTML Elements
- ✓ HTML Form
- ✓ CSS Introduction
- ✓ CSS Syntax & Selectors
- ✓ Javascript Overview
- ✓ Bootstrap Overview

Master and Content Pages in ASP.NET

- ✓ What are Master & Content pages?
- ✓ Advantages of Master Pages
- ✓ Linking Content & Master Pages
- ✓ Working of Master pages
- ✓ The @Page directive
- ✓ Nested Master Pages
- ✓ What are Themes?
- ✓ Applying Themes
- ✓ Types of Themes
 - Page Theme
 - Global Theme

State Management in ASP.NET

- ✓ What is State Management?
- ✓ Types of State Management
 - Client-side state management
 - Server-side state management
- ✓ Using View State
- ✓ Session & Application State
- ✓ Using cookies & URL Encoding
 - Transient Cookie
 - Persistent Cookie
- ✓ ASP .Net Web Application Security
- ✓ Authentication
- ✓ Authorization
- ✓ Impersonation
- ✓ ASP.NET provider model
- ✓ Caching
 - What & Why of Caching
 - Output Caching
 - Data Caching
 - Page Fragment Caching

Localization, Globalization & Personalization

- ✓ Globalization- a culture-neutral design
- ✓ Localizability Review
- ✓ Localizing your app
- ✓ Culture-sensitive Resource Files
- ✓ What is Personalization?
- ✓ Creating & Managing Profiles

Multi-threading

- ✓ What is MultiThreading?
- ✓ Why do Applications need multiple threads?
- ✓ Thread Life Cycle
 - Unstarted state
 - Ready state
 - Not Runnable state
 - Dead state
- ✓ States of Thread
- ✓ Thread Priority
- ✓ Thread Synchronization

Working with MVC

- ✓ Introduction to .Net MVC Framework
- ✓ MVC Framework Features
- ✓ MVC Architecture
- ✓ MVC Components
- ✓ MVC Application Folders
- ✓ Configuration files
 - global.asax
 - packages.config
 - web.config
- ✓ Working with Views
- ✓ Working with Controls

Security

- ✓ What is Authentication and Authorization?
- ✓ Windows Authentication
- ✓ Forms Authentication
- ✓ Passport Authentication
- ✓ Anonymous Authentication
- ✓ Securing pages & folders
- ✓ Roles Management
- ✓ Creating & Authenticating Roles
- ✓ Creating & Authenticating Users Using Membership

WebServices

- ✓ Introduction to Windows Communication Foundation(WCF)
- ✓ Advantages of WCF
- ✓ Windows Presentation Foundation(WPF)
- ✓ WPF Features
- ✓ Windows Workflow Foundation(WF)
- ✓ Creating a WCF service
- ✓ Using on click deployment
- ✓ ASP.Net Web API & Features
- ✓ Creating Web API Service

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Database Connectivity

ADO.Net

- ✓ Introduction of SQL
- ✓ SQL Environment
- ✓ Components of SQL
- ✓ Basic SQL Commands
- ✓ Triggers and Views
- ✓ Data Binding in ASP.Net
- ✓ Data Binding Expressions
- ✓ Data Sources & Controls
- ✓ Insert, Update, Delete Operations using Data Source Controls
- ✓ Working With GridView Control
- ✓ Data bound controls
- ✓ DetailsView control

Introduction of LINQ

- ✓ Introduction to LINQ
- ✓ Features of LINQ
- ✓ LINQ Architecture
- ✓ Advantages of LINQ
- ✓ DataContext in LINQ
- ✓ LINQ Queries
- ✓ Standard Query operators
- ✓ LINQ to ADO.NET
- ✓ LINQ to XML
- ✓ Lambda Expressions