

## ASP.NETSYLLABUS

### HTML5

- Introduction & History
- Basic Tags & Attributes

### JavaScript

- Introduction to JavaScript
- JS Variables
- JS Functions

### CSS3

- Selectors
- Box Model
- Backgrounds and Borders
- Image values and replaced content
- Text effects
- 2d/d Transformations
- Animations
- Multiple column Layout
- User Interface

### Introduction to Bootstrap

- Bootstrap Grid System
- Bootstrap Grid System - Advanced.

### SQL

- Introduction to DBMS
- Difference between DBMS and RDBMS
- SQL Constraints

- DML & DDL functions
- Group by, Having
- Join
- Stored Procedure
- Triggers

### **Web programming concepts**

- Introduction to web programming
- Client / server technology

### **.Net Platform**

- Explore.netframework4.5
- Understand common language runtime
- Understand the role of CTS and CLS
- Learn about base class libraries
- Explain the difference between managed code and unmanaged code
- Start exploring IDE-visual studio 2012

### **Asp.net framework4.5**

- .Net Framework
- The common language runtime
- Framework class library
- Garbage collection
- MSIL
- Types of websites
- Intrinsic objects in asp.net

### **Console application**

- C# language syntax
- Working with console class(input and output)
- Learn how to create c# datatype and variable
- Learn about data type conversions
- Working with operators
- Creating conditional and looping constructs

- Implementing methods and parameters
- Explain the difference between value types and reference types
- Learn how to implement string handling

## **Classes & Objects**

- Classes and objects
- Methods, properties and events
- Constructors
- Property procedures
- Enumerations
- Reference vs. value types
- Structures
- Namespaces
- Dynamic and dynamic language runtime
- Abstract classes and interfaces
- The exception handling in .net 4.5

## **Arrays & collections**

- Arrays
- Resizing arrays
- Arraylists & Hashtables
- Generic Collections

## **WebForms**

- Web control class
- Creating webforms application
- Handling images
- Navigating Between Pages
- Managing Server Controls

## **Uploading files**

- Using file upload control
- Restrictions



## **Validation controls**

- Asp.net validation controls
- Configuring validation controls

## **Navigation controls**

- Tree View Control
- Menu Control
- Sitemap control

## **ADO.NET (Working with Database)**

- Overview of ADO.NET
- Connection object
- Command object
- Data readers
- Datasets & Data adapters
- Using SQLdatasource
- Forms with database connectivity

## **State management**

- Preserving state in web applications
- Using cookies to preserve state
- Asp.net session state
- Application state
- Master pages & Themes
- Simple master page Nested master page
- Configuring master page creating themes
- Applying themes
- Applying external style sheet
- Working with template

## **Data controls**

- Grid view

## **DataBase Connection with Different Architecture**

- Two tier architecture
- Three tier architecture
- Working with stored procedure
- File I/O and streams
- Working with directories and files
- Read and write file

## **Crystal reports**

- Overview to Crystal Reports
- Creating crystal reports with wizards Integrating with web applications Customizing the report viewer
- Adding a Database or table to a Report

## **Xml**

- Basics of XML
- Create XML Document
- XMLreader and XMLwriter
- XML DataBinding
- XML DataSource Control

## **Linq**

- Introduction toLINQ
- LINQ to SQL
- LINQ to DATASET
- LINQ to XML

## **Configuration**

- Configuration overview
- Common configuration settings
- Connecting strings
- Authentication and Authorization

## **User controls**

- Creating user controls
- Interacting with user controls
- Loading user controls dynamically

## **Handling mail**

- Protocols
- Sending mails with and without attachments

## **ASP.NET Webservices**

- Introduction to XML Web Services



- Creating Web Service
- Setting the Web Service attribute
- Test and run your web service
- Consuming a web service in client application

## **AJAX**

- Understanding AJAX Controls
- How Ajax Works
- Ajax Server Controls
- Ajax Control Toolkit Downloading And Installation
- Building a ASPX page with Ajax

## **jQuery**

- Introduction to jQuery
- jQuery effects
- jQuery html
- jQuery ajax
- Examples

## **IIS 7**

- Architecture of IIS7
- IIS Manager
- Publishing Web Application

## **WCF**

- Introduction to WCF
- Building a WCF Service

## **MVC**

- Introduction to MVC
- MVC Application
- MVC Folders
- Adding Controller
- Adding View
- Adding a Model

