

1	What is ASP.NET ? ASP.NET as Server Side technology. Part of .NET Framework. .NET for all types of applications. Types of Applications today. Web Applications, Desktop Applications, Mobile Applications & Web Services. their execution and features with comparison. ASP.NET and ASP as Microsoft technologies for web.
2,3	Prerequisites of Web Applications. Web Applications Universal Nature. Web Server, DataBase Servers under Network O/s. IIS as Web Server. HTTP and its importance in web apps. Web Browser Role in Clients. Examples of Real-time environment. IIS, ASP.Net and Windows as a family for developing web apps. Start working with IIS. IIS Console, Virtual and Physical Directories, simple program for demonstration.
4	Programming for web. HTML and its importance in web applications. HTML 5 as the new and modern markup support. Writing simple HTML programs and testing IIS based web applications.
5	IDE's – their role in development. VS.NET 2010/2011, MS Expression, Web Matrix & Mono IDE's for .NET 4.0/4.5 versions. Creating website using different IDE's – Understanding Cassini, new IIS Express & IIS web servers for creating web sites.
6	HTML, Client Side and Server Side Scripting. Need for Client Side Scripts and their execution. Server Side Scripts execution. JavaScript as the preferred client side scripting language and asp.net as the server side. Simple programs to demonstrate the same.
7	VS.NET Javascript demos – Javascript and its features, Different ways of writing Javascript
8	jQuery and its importance in web development. Using jQuery in VS.NET – jQuery Advantages and Disadvantages. Javascript Document Object Model for accessing HTML elements.
9	More JavaScript and ASP.NET Execution Environment
10	ASP.Net Features—Simplified, Better Performance, Strong typed Language, Event Driven Model, Separation of Code & Design, Security, Easier Deployment & Configuration, Debugging, Better State Management. ASP.NET Web forms and HTML forms. ASP.Net Execution Scenario and Web Forms importance in ASP.NET
11	More ASP.NET Forms environment with basic controls – sample programs
12	ASP.NET Controls demos – Programming basics.
13	ASP.NET Rich controls and List Controls –with concepts like Collections, DataBinding etc...
14	Controls continued with more preferred generics in programming Completing ASP.NET Controls
15	Controls with validation – using HTML 5 validations, jQuery Validations.
16	DataBinding at Higher Level – using Data Tab Controls for effective DataBinding. ADO.Net in ASP.Net, Database access in ASP.Net, Providers and their uses, XML support and so on. Understanding DataSources like DB's, Spreadsheets, Text Files , Service oriented db's and latest Cloud DB's.
17	Different ways of preparing Data Objects like using SqlDataSource controls, LinqDataSource Control with Linq To Sql Concept
18	EDM basics and its importance in new type of applications. Entity DataSource control with EDM concept.

19	DataBinding Programmatically using DataSet
20	DataBinding Programmatically using DataSet, EDM.
21	Introduction to GridView control. GridView as the most feature rich control in ASP.Net for presentations. Using grid for simple and static presentation
22	GridView Fields and Expressions.
23	GridView Editing, using BoundField and TemplateFields
24	GridView Structure and other fields. Shopping cart using GridView. ebay,amazon shop cart demos.
25	Gridview Continued with Real-time and other features
26	GridView Continued....jQuery UI for presenting data, HTML 5 for presenting data.
27	Repeater Control and its advantages. Introduction to Datalist.
28	Using Datalist with more features than Data Repeater like selection and editing support – Bubbled events
29	ListView and other DataBound Controls
30	Dynamic Data – one of the ASP.NET Form – advantages – its relation with Linq To Sql & EDM Its importance for higher level implementations.
31	Introduction to Configuration. ASP.NET Configuration importance. Machine.Config, web.config files. Some settings of this files. <compilation> <appSettings>. Hierarchical approach of configuration files.
32	More ASP.NET Configuration Settings <connectionStrings>,
33	<mailSettings> System.Net.Mail – SMTP and others
34	<trace> <customErrors> and some other tags
35	Security Configuration in ASP.NET. authentication and authorization in o/s, db servers and finally in web apps. Implementing Security in ASP.Net using various methods in support with configuration. Identifying and implementing the necessary xml tags related to configuration in ASP.Net.
36	Security continued....Authorization and authentication in windows,passport and forms based.
37	Security Continued – Usernames and passwords in database,xml file and also in web.config.DB and xml file examples
38	ASP.NET Memberships concept. ASP.NET_REGSQL Tool configuration tool for configuring the SQL SERVER, ASP.NET configuration utility to create usernames/passwords etc....using Login Controls(5) for membership and also for individual uses.
39	State Management in ASP.NET. How to persist data during round trips in asp.net. Complete list of state enabled/disabled. Need to add State for web apps. All methods overview QueryString, Server.Transfer, PostBackUrl, ViewState object, Session, Application and Cache object. Examples
40	ViewState and its use in ASP.NET 2.0 applications. Gridview using ViewState. ViewState for other uses. Internal and external ViewState management properties and methods.
41	ASP.NET Applications and Sessions. Consuming both in the form of Variables and Events. Use of Application and Session Variables with example.
42	GLOBAL.ASAX file importance. ASP.NET application and Session Events. New events and their uses. Drawbacks of Application Variables.
43	ASP.NET Caching – Page Output Caching , Data Caching and Fragment Caching. Caching as the important method for improving speed. Gmail, searching and shopping cart scenarios. ASP.NET Page Life cycle view with its events and execution process

44	Page Output Caching demo.
45	Page Output continued, Data Caching and overcoming the drawbacks of Application variables. Time and File Dependency demos.
46	Fragment Caching, Web user controls and its importance in application development. Partial page caching demo.
47	Master Pages, Themes and Skins in ASP.NET 2.0. New improved design capabilities. Dynamic and static assignments of themes and skins.....
48	Web Services in ASP.Net , web services as the next generation of developing applications , importance of SOAP and XML in web services. SOA model of apps. Web Services Infrastructure. UDDI , DISCO , WSDL and SOAP as the underlying technologies.
49	DCOM, CORBA, Remoting and Web Services differences. Web Services support in ASP.NET. Distributed computing using Web Services . Create and test web services. Wcf service as new environment for Web Services and its advantages. Develop sample WCF services.
50	Consuming web services. Web Services Simple and Database example. Live demos on web services. Hosted web services usage from asp.net applications.
51	Service Oriented Architecture applications – using jQuery to consume services.
52	ASP.NET Mobile apps - Smartphone simple demos
53	Smartphone apps running in emulator and also on real device. Smartphone apps usage in real world. Using emulators, activesync and device emulator Manager.
54	Pocket PC applications – using emulator as real device, deploy and run the applications.
55	Deployment in .NET, Packaging and publishing applications and services.
56	.NET 4.5 features – HTML 5 – jQuery for validations and other demos** HTML 5 and the browsers support for it.
57	Cloud Computing – what it is – Why Windows Azure as .NET native cloud platform – Developing windows azure application using the real Azure Portal – Understanding different types of cloud applications.**
58- 60	Missed out topics - Project & Queries
	<i>Note:- AJAX – JQUERY – WPF(Silverlight) is covered in separate Schedule</i>

Schedule is tentative and also sessions order might differ

** Conditional based on students work and time.

Addl Topics are added as they are available

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