704 : Advanced Web-Technology – I

Unit 1   **15%**

Overview of .net framework: .net architecture, framework class library, Common Language Run Time, managed code, assemblies, Intermediate Language, Just In Time Compiler, common type system, common language specification, .Net Features.

Unit 2   **30%**

Introduction to C#:
C# : Data Types(Boxing and UnBoxing), Operators, Access Specifier, OOPS Concepts: Class, Inheritance, Constructor, Destructor, Abstraction, interface, polymorphism (Over loading and over ridding), Garbage Collection, Array (One Dimensional and Two Dimensional), Jagged Array, Collection: Generic Collection (List),Non Generic Collection (Array list, Hash table,), Indexer(One Dimension) and property, Delegates and events(Multicasting , Multicasting Event), Exception Handling, Introduction to Namespace: Creating & Using Namespace(DLL)

Unit 3   **25%**

Architecture of ADO.Net, Comparison with ADO(Connected and Disconnected Architecture), .Net Data provider, Data Adapter, Data Set, Data Row, Data Column, Data Relation, command, Data Reader, Creating and Using Stored Procedure, Introduction to Xml.

Unit 4   **30%**

ASP.Net : ASP.NET Page Life Cycle, Server Controls : label, dropdown list box, validation controls, list box, text box, radio button, check box, **State Management :** session, cookie, View State, **Data Rendering Controls:** Grid View, Data List, Repeater, Binding and perform operations (Insert, Update, Delete) with Grid View, Creating Simple 3-tier Application, Creating and Using web services.
Introduction to AJAX, Understanding Need of Ajax in Web Application, Ajax controls: Script Manager, Update Panel, Update Progress, Timer

Books:

1. Complete Reference C# - Herbert schildt (TMH Publication)
2. Professional ASP.NET 4 in C# and VB
3. Complete reference Asp.Net - Herbert schildt (TMH Publication)
4. Asp.Net with Visual c#.Net 2003-Wrox Publication
5. Visual c#.Net 2003-Wrox Publication
6. Unleashed Asp.net.

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