Paper No : 702
Paper Title : Advanced Programming Environment – II. (VB.NET & ASP.NET )

1. VB .NET Programming Basic
   1.1. Working with Data Structures,
   1.2. VB.NET Controls, VB.NET Events
   1.3. Building Windows Applications
   1.4. Sub Procedure, Functions, Arrays, Timers, Files, Printing
   1.5. Displaying Dialog Boxes, Multiple forms, Standard Modules, Menus

2. Advanced Object-Oriented Techniques
   2.1. Classes, Objects, Inheritance, Containment,
   2.2. Event Handling, Delegates, Interface.
   2.3. Interacting with objects, early – late binding

3. Debugging and Error Handling.

4. Interacting with Input/Output files.
   4.1. Directories, Files, Path
   4.2. DirectoryInfo, FileInfo Classes, Streams, etc.

5. Accessing Databases with SQL Server and ADO.NET
   5.1. ADO.Net Important components, Providers
   5.2. Structure & working with DataSet.
   5.3. Using DataSet & DataViews.


7. Programming ASP .NET with VB.NET
   7.1. Constants, Variables, Data types, Operators.
   7.3. How dynamic Website Application works
   7.4. Processing of ASP.NET Application.
   7.5. The Common Language Runtime (CLR).

8. Event driven Programming and Postback.
   8.1. ASP.NET Events, HTML Events.
   8.2. Server Control Events in ASP.NET.
   8.3. Event Driven Programming and Postback.

9. Objects & Components in ASP.NET.
   9.1. Namespace, Page Class
   9.2. Request Object, Response Object
   9.3. Server Object, Components & Control
   9.4. State Handling
       9.4.1. Session State, Cookies
   9.5. Scripting Object Model
10. Objects & Structured Data
   10.1. Collection, types of Collection, Arrays as Collection
   10.2. Array list
   10.3. Hash table, Sorted List

11. Web Services and ASP.NET
   11.1. Web Service Development
   11.2. WSDL & SOAP
   11.3. Web Services Background

12. Reading & Manipulating with Data Source
   12.1. ADO .NET
   12.2. ADO .NET Object
   12.3. Connection, Command, Data Reader, Data Set, Data Table, Data Row Object.
   12.4. Disconnected Data.
   12.6. Data Adapter Command.

13. ASP .NET Server Controls
   13.3. Properties, Events.
   13.4. Page Lifecycle

Main Readings:

Supplementary Reading:
   2. VB.NET Programming Developer’s Guide. – Dreamtech.
   8. Visual Basic.NET Developer’s Headstart. – TMH. – Jeffrey Shapiro
   12. VB to VB.Net – Techmedia. – Sams.
   14. ASP.NET Programmer’s Reference – Wrox
   16. Magic of ASP.NET with C# - Firewall Media – Kumar Sanjeev, Shibi Panikkar
   20. ASP.NET for Developers – Tecmedia – Amundsen.