

III BCA / VI Semester
ASP.NET and Its Applications

UNIT I

Introduction to ASP.Net - Language Support - **ASP.NET Web Forms** - Introducing Web Forms-Working with Server Controls - Applying Styles to Controls - Server Control Form Validation -Web Forms User Controls - Data Binding Server Controls - Server-Side Data Access - Data Access and Customization - Working with Business Objects - Authoring Custom Controls - Web Forms Controls Reference - Web Forms Syntax Reference.

UNIT II

ASP.NET Web Services - Introducing Web Services - Writing a Simple Web Service - Web Service Type Marshalling - Using Data in Web Services - Using Objects and Intrinsic - The Web Service Behavior - HTML Pattern Matching - **ASP.NET Web Applications** - Application Overview - Using the Global.asax File - Managing Application State - HttpHandlers and Factories.

UNIT III

Cache Services - Caching Overview - Page Output Caching - Page Fragment Caching - Page Data Caching – **Configuration** - Configuration Overview - Configuration File Format - Retrieving Configuration – **Deployment** - Deploying Applications - Using the Process Model - Handling Errors.

UNIT IV

Security - Security Overview - Authentication & Authorization – Windows - based Authentication – Forms - Based Authentication - Authorizing Users and Roles - User Account Impersonation -Security and Web Services – **Localization** - Internationalization Overview - Setting Culture and Encoding - Localizing ASP.NET Applications - Working with Resource Files.

UNIT V

Tracing - Tracing Overview - Trace Logging to Page Output - Application-level Trace Logging –**Debugging** - The SDK Debugger – **Performance** - Performance Overview - Performance Tuning Tips - Measuring Performance - **ASP to ASP.NET Migration** - Migration Overview - Syntax and Semantics - Language Compatibility - COM

Interoperability - Transactions.

Reference books:

1. ASP.NET Developer's Guide by Greg Buczek
2. Build your own ASP.NET Website using C# and VB.NET by Zak Ruvalcaba