

**VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT**  
**Bachelor of Computer Application (B.C.A) 3<sup>rd</sup> Year**  
**Proposed Syllabus (As Per CBCS)**

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**T. Y. B. C. A. Semester 5**  
**Effective From: June 2013.**

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**Paper No.: 505 (Core Paper-3)**  
**Paper Title: ASP .NET**

**Teaching Hours: 4 Hrs./Week**  
**Credits: 4**

**Prerequisite: Basic Concepts of .NET & HTML.**

**Aim: To provide knowledge about developing web based applications.**

**Expected Outcome: Students will get good hands on experience to develop web based applications and will also get good understanding about project development.**

**1. Introduction to ASP.NET**

- 1.1. What is ASP.NET
- 1.2. .Net framework 2.0
- 1.3. Compile Code
  - 1.3.1. Code Behind and Inline Coding
- 1.4. The Common Language Runtime
- 1.5. Object Oriented Concepts
- 1.6. Event Driven Programming

**2. Server Control**

- 2.1. Post back
- 2.2. Data binding
  - 2.2.1. Grid View
  - 2.2.2. List Box
  - 2.2.3. Data list
  - 2.2.4. Data binding Events
  - 2.2.5. Repeater
  - 2.2.6. Form view
- 2.3. Web Server Control
- 2.4. Html Server Control (basic HTML Server Control)
- 2.5. Validation Control
- 2.6. Master Page
- 2.7. Themes & CSS

**3. Database Access**

- 3.1. Introduction about ADO.NET
- 3.2. Introduction about Provider, Adapter, Reader, Command Builder
- 3.3. Database Access using ADO.NET

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**4. Client Server Communication**

- 4.1. Communications with Web Browser
- 4.2. Response Object
- 4.3. Cookies
- 4.4. Query String
- 4.5. Session Management and Scope of Variable

**5. Advance ASP.NET**

- 5.1. Web.config
- 5.2. Sitemappath Server Control
- 5.3. User Control
- 5.4. User Profile

**6. Web Services**

- 6.1. Basics of Web Services
- 6.2. Interacting with web services

**7. Error Handling**

- 7.1. Unstructured Error
- 7.2. Structured Error
- 7.3. Error handling in Database

**Reference Books:**

1. Professional ASP.NET 1.1. -Bill Evjen , Devin Rader , Farhan Muhammad, Scott Hanselman , Srivakumar – Wrox
2. Introducing Microsoft ASP .NET 2.0, Esposito - PHI
3. Professional ADO.NET – Bipin Joshi, Donny Mack, Doug Seven , Fabio Claudio Ferracchiati, Jan D Narkiewicz - Wrox
4. Special Edition Using ASP.NET – Richard Leineker – Person Education
5. The Complete Reference ASP.NET -Matthew MacDonald –TMH
6. ASP.NET – Black Book – dreamTech
7. Beginning ASP.NET 3.5 in C# and VB –Wrox-Imar Spaanjaars