

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
Bachelor of Computer Application (B.C.A) 2nd Year
Syllabus (As Per CBCS)

S. Y. B. C. A. Semester 4
Effective From: June-2012

Paper No.: 404

Paper Title: .NET PROGRAMMING

1. Overview of Microsoft .NET Framework

- 1.1. The .NET Framework
- 1.2. The Common Language Runtime (CLR)
- 1.3. The .NET Framework class Library

2. Visual Basic .NET Programming

- 2.1. Working with Tool Box Controls
 - 2.1.1. Common controls – Label, Text Box, Button, Check Box, Radio Button, Date Time Picker, List Box, Combo box, Picture Box, Rich Text Box, Tree View, Tool Tip, Progress bar, Masked Text box, Notify Icon, Link Label, Checked List box
 - 2.1.2. Container
 - 2.1.3. Data – Data Set, Data Grid
 - 2.1.4. Component – Image list, error provider, Help provider, Timer
- 2.2. Working with Menus and Dialogue Boxes
- 2.3. Exception Handling
 - 2.3.1. Structured Error Handling
 - 2.3.2. Unstructured Error Handling
- 2.4. Using Modules and Procedures
- 2.5. Using Arrays and Collections

3. Object Oriented Programming

- 3.1. Creating Classes, Object Construction & Destruction
- 3.2. Abstraction, Encapsulation & Polymorphism
- 3.3. Interfaces & Inheritance

4. Database access using ADO.NET

- 4.1. Visual Database Tools
- 4.2. ADO .NET Object Model
- 4.3. ADO .NET Programming

Reference Books:

- 1. Visual Basic .NET Programming (Black Book) - By Steven Son Holzner , DreamTech Publication
- 2. Mastering Visual Basic.NET by Evangelos Petroustos BPB Publication
- 3. Moving to VB.NET : Stategies, Concepts, and Code - by Dan Appleman – Apress Publication
- 4. Microsoft Visual Basic .NET Step by Step - by Michael Halvorson, PHI Publication
- 5. Database Programming with Visual Basic.NET and ADO.NET - by F.Scott Barker – Sams Publication

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6. Beginning .NET Web Services Using Visual Basic .NET - by Joe Bustos and Karlli Waston, Wrox Publication
7. .NET – Complete Development Cycle - by G. Lenz, T. Moeller, Pearson Education
8. Professional VB.NET, 2nd Edition - by Fred Barwell, et al – Wrox Publication