

Uka Tarsadia University



B.Com (Computer Application)

Visual Basic .Net (030100503)

5th Semester

Effective from July-2013

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Visual Basic .Net (030100503)

B.Com (Computer Application) (Sem.-5) Syllabus, effective from July-2013

Course Objective and Outcomes: To acquaint students with the visual programming concepts and enable them to learn the basics event driven programming of visual programming.

Total Hours: 52

[4 hrs. and 4 hrs practical per week]

Unit-1 Introduction to Visual Programming

[Weightage 25%]

- 1.1. Introduction, Concept of Event Driven Programming, Introduction to VB.Net Environment, .Net Framework and CLR
- 1.2. Building VB.Net Application, VB.Net IDE
- 1.3. Basic Language Console Application and Windows Application, Data Types of VB.Net
- 1.4. Declaring Variables, Scope of Variable

Unit-2 Control Structure, Arrays and Procedure

[Weightage 25%]

- 2.1. Converting between data types, Arrays – Declaration and manipulation
- 2.2. Making Decisions with If...Else Statements, Using Select Case, Loop statements- Do Loop, While Loop, For Loop
- 2.3. Writing and Using Procedures – Subroutines, Function
- 2.4. Arguments – Arguments Passing Mechanism , Built in Function and Custom Function

Unit-3 Basic Windows Controls and Working with Forms

[Weightage 25%]

- 3.1. Windows Application - Forms, Placing Controls on Forms, Message Box, Input Box
- 3.2. Basic Windows Controls and its properties- methods (Text Box, Labels, Buttons, Check Box, Radio Button, Group Box, List Box, Combo Box, Picture Box, H Scroll Bar and V Scroll Bar, Tool Tip, Timer, etc.)
- 3.3. Working with Forms, The Startup Form, Building Dynamic Forms at Runtime,
- 3.4. Designing Menus – The Menu Editor, The Tool Strip Menu Items Properties, Manipulating Menus at Runtime

Unit-4 Programming with ADO.NET

[Weightage 25%]

- 4.1. Object-Oriented Programming – Creating and using Classes & Objects
- 4.2. Programming with ADO.Net – The Basic Data –Access Classes, The Connection Class, The Command Class, The Data Reader Class
- 4.3. Storing Data in Data Sets –Filling Data Sets, Accessing the Data Sets Table, Working with Row, Adding and Deleting Rows, Navigating through a Dataset, Performing Update Operations – Updating the Database with Data Adapter, Handling Identity Columns
- 4.4. Working with Typed Data Sets – Generating and Exploring Typed Data Sets, Data Binding – Using the Binding Source Class
- 4.5. Designing Data-Driven Interface - Enhancing the Navigational Tools, Binding Hierarchical Tables, Adjusting the Appearance of the Data Grid View Control, Editing the Data in Hierarchical Tables, Building More-Functional Interfaces

Text Book:

1. Evangelos Petroutsos., *Mastering Microsoft Visual Basic 2010*. Wiley Publishing, Inc.