

VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT
B. Com. (Computer Application) 3rd Year
Vocational Course
Syllabus
SEMESTER 5
Effective From: June 2013

Paper No.: 7 **Teaching Hours: 3 Hrs./Week**
Paper Title: Computer Application Paper-VII **Credits: 3**
(GUI TOOLS)

Prerequisite: Basic knowledge of computer programming language.

Aim: To make students aware of programming using GUI tools.

Expected Outcome: The students will be able to develop GUI applications.

A. Visual Basic **[50%]**

1. Visual Basic Overview:

- 1.1. Introduction of Visual Basic? VB Specification, Limitation and File Formats.
- 1.2. Introduction to Visual Basic IDE Element
- 1.3. Screen of Visual Basic - Title Bar, Context Menu, Tool Bar, Tool Box, Project Window, Properties Window, Form Designer Window.

2. Customizing a Form and Writing Program:

- 2.1. Creating, Opening, and Saving Project
- 2.2. Working with Multiple Project- Adding, Removing and Saving Files
- 2.3. Setting Project Option – Creating Stand- Alone Executable Windows Programs
- 2.4. Understanding Properties, Methods and Events
- 2.5. Designing A Form, Setting The Startup Form- Steps In Creating Visual Basic Application – Ending A Visual Basic Application.

3. Default Visual Basic Control:

- 3.1. Adding Control to the Form – Resizing, Moving and Looking Control
- 3.2. Setting Properties of the control. Using Text Boxes, Command Button, Labels, Option Buttons, Check Boxes, List Boxes, Combo Boxes, Image Control, Picture Box, Scroll Bars, Drive List Box, Directory List Box, File List Boxes, Frame Controls, Timer Controls. (Commonly Used Properties, Event and Methods of all the control to be taught) Understanding the concept of control array.
- 3.3. Common Form Properties: (Name, Caption, Appearance, Border Style, Control Box, Maxbutton, Minbutton, Font, Height, Width, Left, Top Mouse Pointer, Showintaskbar, Startup Position, Enabled, Visible, Window State, BackColor, ForeColor, ScaleMode)
- 3.4. Common Form Method (Load, Unload, Show, Hide, Move, Cls, Print, Set Focus)
- 3.5. Common Form Event (Activate, Deactivate, Load, Unload, Initialize, KeyDown, KeyPress, KeyUp, Dbclick, Gotfocus, Lostfocus, Mousedown, Mousemove, Mouseup, Resize, Queryunload , Terminate).

4. Programming Fundamental:

- 4.1. Fundamental: Variable: Declaration of variable, types of variable, scope of variable. Variable declarations and Implicit and Explicit variable declaration. Constant: Types of constant, scoping user-defined constant, Operators: Arithmetic, Relational, Logical, Assignment and Comparison operator.
- 4.2. Control Flow Statements

5. Visual Basic Built-In-Function:

- 5.1. String Function, Numeric Function, Date and Time Function, Financial Function, Variable Type Function, Miscellaneous Functions: IIF, SWITCH.

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6. Menus MDI and Dialog Box:

- 6.1. Menu Basics- Introduction To Menu Editor
- 6.2. Creating Submenu, Working With Menu At RunTime- Using Access Key And Shortcut Keys- Creating Popup Menus.
- 6.3. MDI Basics Creating an MDI Application Working With MDI Form and child form, Loading And Unloading Forms.
- 6.4. What is dialog box – Modal and Modless Dialogbox- Inputbox Function- MsgBox Function– Common Dialog Box Control.

7. Visual Basic and Database:

- 7.1. What Is ActiveX Control- Loading ActiveX Control- Ado Data Control
- 7.2. Using Ado Data Control – Setting The Connection String And Recordsource Properties Working With Cursor Type
- 7.3. Working With Properties Like Bof Action, Eof Action, Lock Type, Binding Control (Textbox Control) To The Adodc, Setting Datasource and Data filed Properties
- 7.4. Adding and Deleting Records with the Adodc and finding specific records.
- 7.5. Establish connectivity with Ms-Access and Adding, Editing, Deleting and Searching Records in database – table

B. Practical

[50%]

Practical Based on above subject content

Reference Books:

1. Mastering Visual Basic 6.0 - Delaney
2. Learn To Program With Vb6 - John Smiley (Microsoft Press)
3. Beginning visual basic - Peter Wright's (Shroff Publishers & Distributers Pvt.Ltd)
4. Paul Sheriff Teaches Vb6- (PHI)
5. Visual Basic 6 Programming Black Book – Steven Holzner
6. Mastering Visual Basic: By – Computer World
7. Teach yourself access in 24 hours – (Tech-media) Timothy Buchanan, Craig Eddy, Rob Newman