Programming in Visual Basic

Semester VI	Subject Code: BC41602	Lectures: 60

Objectives:

The course is designed to equip students,
- To learn properties and events, methods of controls
- How to handle events of different controls.
- To understand the use of active X controls
- How to design VB application
- To learn database connectivity using VB as frontend.

Unit 1: VB 6 Basics	10

- Introduction to VB IDE
- VB as Event Driven Programming language
- Working with Properties and Events of a Form
- Constant, Variables, Data Types
- Operators
- Control Structures
  - If
  - If....Else
  - Nested If....Else
  - Select Case
- Looping structures
  - Do Loop
  - While Loop
  - Until Loop
  - For Loop
  - With Statement
- Array (Single Dimensional, Multidimensional Array, Control Array)
- Functions (Built in and user defined)

Unit 2: Working with Controls and Menus	10

- Introduction to VB Control and its Types
- Working with Properties and methods of each controls
- Creating an Single Form Application and multiple form application

- Creating properties and methods in form
- Working with menus
- Popup menu
- Adding and Deleting menus at Run-Time

Unit 3: Handling Controls at Run Time and Working with Graphics	06

- How to add controls at run time
- How to work with "With block"
- Graphics Methods Vs. Graphics Controls
- Redrawing Graphics in Windows: AutoRedraw and paint
- Clearing the Drawing Area, Setting colors, Drawing Text, Working with fonts
- Drawing Lines, Boxes, Circles, Arcs

Unit 4: Working with ActiveX Controls	12

- Working with status Bar
- Working with progress bar
- Working with Toolbar
- Setting up the Image List controls (Adding and Deleting images with code)
- Working with DTPicker
- Working with MSFlexGrid
- Working with Microsoft common dialog control
- Working with Tree View and List view control

Unit 5 :- Working With Database	10

- ADO data Control
- Studying the properties and methods of ADODC
- Connectivity with MS-Access
- DataGrid control
- Connectivity with Oracle
- ADODB objects (Connection, Command, Recordset)
- Using ADODB Objects for Database connectivity
- Developing ADO Application through ADODC and ADODB
- Report Generation with DataReport, Crystal report

*Contact hours – 12 hours

Recommended Text Book:
1. *Programming in Visual Basic*, Somavanshi Vision Publication 2014 2. *Programming in Visual Basic*, Gajanan Deshmukh, U.Shirshetti Nirali Prakashan 2014

Reference Books:
1. Evangelos Petroutsos, *Mastering Visual Basic*, BPB publication 2. Steven Holzner, *Visual Basic 6 Programming Black Book*, Dreamtech publication 3. Gerg Perry, *Learn VB in 21 days* ,Techmedia Publication