Course Code	Course Title	Н	C	I	E	Т
17U3DMC6	VISUAL PROGRAMMING	5	4	25	75	100

Objectives:

- ➤ To impart the knowledge of computer programming with GUI approach.
- Learning the concept and controls of a front-end tool.

UNIT I: Introduction (15 hours)

Overview of the IDE - Managing forms in Visual Basic - The Visual Basic Language: Declaring Constants, Variables - Selecting variable types-Converting between data types - setting variable scope- verifying data types - declaring arrays & Dynamic arrays - Declaring Subroutines - Declaring functions - Handling strings - Converting strings to numbers and back again - Handling operators & operator precedence - Using if-else statements- Using select case - Looping - Handling higher math- Handling Dates and Times.

UNIT II: Controls (15 hours)

Text Boxes and Rich text Boxes- command buttons – checkboxes & option buttons – list boxes and combo boxes – picture boxes and image controls – The timer control – The frame control – the label control – the shape control.

UNIT III: Menus & Toolbars

(15 hours)

Visual Basic Menus: adding a menu to a form – modifying & deleting menu items – creating sub menus – using Visual Basic predefined menus-Handling MDI forms & MDI child menus-creating & displaying popup menus – Adding & deleting menu items at runtime— Toolbars, status bars, progress bars and coolbars.

UNIT IV: Files & Data Base Concepts

(15 hours)

File handling and File Controls – Using DAO,RDO and ADO: Creating and managing databases with the visual data manager – creating a table - Adding a Data control – opening a database with the data control, Remote data control, ADO data control – connecting a databases using controls- working with database objects in code.

UNIT V : Activex controls & Documents

(15 hours)

Creating an Activex control – Designing Activex control- Adding controls to an Activex control-Registering an Activex control – Creating an Activex Document – Activex Document Dll vs EXEs – Testing an Activex Document.

Text Book:

Steven Holzner – "Visual Basic 6 Programming Black Book" - 16th Reprint Edition -Dreamtech Press Publications.

Reference Books:

- 4. Petroutsos.E "Mastering Visual Basic 6" Fifth edition, BPB Publications
- 5. Jerke .N "Visual Basic 6.0 The Complete reference" Nineteenth Reprint 2004, Tata-McGraw Hill Publishing.
- 6. Gary Cornell- "VB 6 from the Ground up" Second Reprint 1999-Tata-McGraw Hill Private Ltd.