

B.Sc. Computer Science

SEMESTER-V

Course Code	Course Title	H	C	I	E	T
17U5DMC15	Dot Net Technologies	5	4	25	75	100

Objectives:

- To understand the concept of GUI Design tools, also to make them aware of controls in VB.NET
- Code programs and develop interface using VB.NET.

Unit – I

Total Hours : 75

Introduction to VB.NET

(15 Hours)

Getting started in Visual Basic to .Net –Starting Visual Basic Dot Net-Creating and Running very first application-**IDE:** What is IDE-Using the Auto hide facility–Using the Properties windows– Setting the properties of forms and controls–Using the solution explorer-Writing an event procedure-The Standard Toolbar. Setting properties using the Properties Window: Classification of Properties.

Unit - II

Control structure & Looping

(15 Hours)

Variables and Data types-Text box control–Radio button control-Programming Statements :IF...Then ,IF...THEN...END IF, IF...THEN...ELSE...END IF–The MsgBox() function-The InputBox() function-List box control-Programming Statement: Select Case–Check box control-Iteration Statements-Do While Loop- Do Until Loop- Do Loop Until-For Next-Arrays

Unit - III

Menus and Dialog Boxes

(15 Hours)

Basic elements of menus-Generic procedure of creating menus-Creating a simple menu application. Structured Programming:What is Structured Programming-Events, Subroutines & Functions-Scope of variables-Scope of procedures-Elementary and composite data types.

Unit - IV

Object-Oriented programming

(15 Hours)

What is OOPS-Implementing OOPS-Inheritance overriding-Collections. Working with files: Introduction to files-Classification of files-Handling files and folders using functions-File processing using streams-Advanced Techniques in Visual Basic Dot Net:Single document interface and multiple document interface.

Unit – V

Data Access with ADO.Net

(15 Hours)

What are databases-Connections, Data Adapters and Datasets-Accessing Data with Server Explorer-Accessing Data with Data Adapters and Datasets-Working with ADO.Net-Overview of ADO.Net Objects.

Text Book:

1. “**Visual Basic Dot Net** ” -Shirish Chavan - Pearson Edition- Fourth Edition.
2. “**Visual Basic Dot Net Black Book**” - Steven Holzner –Wiley Press.

Chapters:

Unit – I: 1.5, 1.6, 2.2, 2.5, 2.14-2.16, 2.18, 2.22, and 3.1.

Unit – II : 5.1,5.11,5.12,5.13,5.14,6.3,6.7,6.9,6.10,7.2,7.3,7.5,7.6,7.8,7.9,7.11. } Textbook 1

Unit – III: 9.1, 9.2, 9.3, 10.1, 10.2, 10.3, 10.4, 10.7.

Unit – IV: 11.1, 11.2, 13.1, 13.2, 13.4, 13.10, 14.1.

Unit – V: 21 →Textbook 2

Reference Books:

1. “Visual Basic Dot Net-A Beginner’s guide” - Jeffery Kent -Tata McGraw Hill- First Edition 2002.
2. “Visual Basic Dot Net Step by Step” - Michael Halvorson –Prentice Hall of India Pvt-, First Edition,2002.
3. “The Complete reference Visual Basic Dot Net” - Jeffrey R.Sharpiro-Tata McGraw Hill- Sixteenth Reprint,2010
4. “Visual Basic Dot Net” - John Smiley-Tata McGraw Hill, First Edition 2002.