

Branch: BCA	Semester-V
Subject Code: 5103	Lecture: 04 Credit: 04
Subject Title	VISUAL AND DATABASE PROGRAMMING

Modules	Sr. No.	Topic and Details	No of Lectures/Practicals Assigned	Marks Weight age %
UNIT-I	1	Introduction to .NET, .NET Framework features & architecture, CLR, Common Type System, MSIL, Assemblies and class libraries. Introduction to visual studio, Project basics, types of project in .Net, IDE of VB.NET- Menu bar, Toolbar, Solution Explorer, Toolbox, Properties Window, Form Designer, Output Window, Object Browser.		
	2	The environment: Editor tab, format tab, general tab, docking tab. visual development & event drive Programming -Methods and events.	4	8
UNIT-II	3	The VB.NET Language- Variables -Declaring variables, Data Type of variables, Forcing variables declarations, Scope & lifetime of a variable, Constants, Arrays, types of array, control array, Collections	2	4
	4	Subroutines, Functions, Passing variable Number of Argument Optional Argument, Returning value from function. Control flow statements: conditional statement, loop statement. MsgBox & Inputbox.	5	10
	5	Working with Forms : Loading, showing and hiding forms, controlling One form within another.GUI Programming with Windows Form: Textbox, Label, Button, Listbox, Combobox, Checkbox, PictureBox, RadioButton, Panel, scroll bar, Timer, ListView, TreeView, toolbar, StatusBar. There Properties, Methods and events. OpenFileDialog, SaveFileDialog, FontDialog, ColorDialog, PrintDialog. Link Label. Designing menus : ContextMenu, access & shortcut keys.	5	10
UNIT-III	6	Object oriented Programming: Classes & objects, fields Properties, Methods & Events, constructor, inheritance. Access Specifiers: Public Private, Protected. Overloading, My Base	6	12

		& My class keywords.		
	7	Overview of OLE, Accessing the WIN32 API from VB.NET & Interfacing with office97, COM technology, advantages of COM+, COM & .NET, Create User control, register User Control, access com components in .net application.	6	12
UNIT-IV	8	Database programming with ADO.NET – Overview of ADO, from ADO to ADO.NET, Accessing Data using Server Explorer. Creating Connection, Command, Data Adapter and Data Set with OLEDB and SQLDB. Display Data on data bound controls, display data on data grid.	6	12
	9	Fetching Record Sets and Operation , Insertion, updation, navigation, selection etc.	6	12
	10	Report Generation (Crystal report or Data report or any third party Report Tool which can be configured with VB)	6	12
		Total	50	100

Text and Reference Books:

1. VB.NET Programming Black Book by Steven Holzner –Dreamtech Publications
2. Mastering VB.NET by Evangelos Petroustos- BPB publications
3. Introduction to .NET framework-Worx publication
4. msdn.microsoft.com/net/
5. www.gotdotnet.com
6. GOTTFRIED BYRON S., Ed: 01 ,“VISUAL BASIC “-, Tata McGraw Hill 2nd edition
7. Greg Perry,“Visual Basic in 21 days”, Sams, 1998
8. Prosenjit Shina, “Visual Basic Complete”, S. Chand & Company Limited, 2005
9. Julia Bradely ,“Visual Basic 6”,