

4BCA1–PROGRAMMING WITH VISUAL BASIC.NET

UNIT-I

Introduction to .NET Framework, Understanding web programming - web browser and web server, How to create HTML pages and HTML Forms, Role of .NET in Web Development, .NET Framework and platform, base classes, XML as .NET meta language, Relation with COM, overview of CLR, .NET class Frame, An overview of .NET Components.

IDE of VB.NET - Menu bar, toolbars, project explorer, toolbox, Properties window, Form designer, Form layout, Immediate window . Visual Development And Event-Driven Programming -Event Driven Programming Methods and events, Concept of VB.NET project, types of VB.NET project, Opening and saving the projects, Elements of the user interface, Designing the user interface, Creating forms and code modules, Running the application, Grouping controls, Customizing The Environment -Editor tab, format tab, general tab, docking tab, environment tab, Working with Forms, Loading, Showing and hiding forms, Controlling one form within another

UNIT-II

Variables -Declaring variables, Type of variables Converting variables types, User-defined data types, Special values, Forcing variables declarations, Scope and lifetime of a variable, Constants, Arrays, types of array, control array, Collections, Procedures, subroutines, functions, Control flow statements and conditional statements, Loop statements, Designing menus and popup menus, Programming menu commands, Using access and shortcut keys, Using message box and input box, Using standard modules

UNIT - III

The Text Box Control -Text selection, Search and replace operations, The List box and Combo box controls, Indexing with the List box controls, Searching a Sorted list, The scroll bar and slider controls, Using the common dialog controls, Color common dialog box, Font common dialog box, The file open and save common dialog boxes, Print dialog box, Help common dialog box, The file controls.

UNIT-IV

Classes, instances, objects, Encapsulation and abstraction, Derived classes and base classes, class in. Object linking and embedding

(OLE), OLE at runtime, OLE control, Graphics With Visual Basic.NET, Form, picture box and image box controls Sizing images, loading and saving images, Coordinate systems, scale properties and methods, The drawing methods: drawing text, drawing, drawing boxes, filling, Drawing curves, manipulating pixels, specifying colors, Using timer controls, Multiple Document Interface(MDI), MDI-built-in capabilities, Parent-child menus, Objects and instances, Loading and unloading of child forms, New and open commands

UNIT-V

Windows management, Graphics device interface, Accessing the Win32 API from VB.NET, Dynamic-link-libraries (DLL), Declaring a DLL procedure, Calling a DLL procedure, Special considerations when calling DLL with special data types, The bitmaps and graphics API functions, System API functions

Programming and Interfacing with Office 97 -

Programming with objects, The New VB for applications (VBA) Editor; Automating office applications, Spell-checking documents, Working with excel objects

TEXT & REFERENCE BOOKS :-

- ***Application Development Using Visual Basic and .NET*** by Robert J. Oberg, Peter Thorsteinson, Dana L. Wyatt
- ***Other books will be recommend at the beginning of the semester.***