UNIT-I INTRODUCTION TO .NET FRAMEWORK

10 Hours

- **1.1 Introduction to .NET framework:** Dot Net Architecture Managed Code and the CLR –Intermediate Language, Metadata and JIT Compilation–Automatic Memory Management.
- **1.2 Introduction to.NET framework**: Common Type System(CTS) Common Language Specification (CLS) Assembly –Namespace.
- **1.3 Visual Studio .NET** Using the .NET Framework. Exploring the Visual Studio Integrated Development Environment System requirement Versions
- **1.4. The Framework Class Library**-.NETobjects ASP.NET-.NET web services—Windows Forms

UNIT-II INTRODUCTION TO C#

10 Hours

- **2.1 Elements**: Variables and constants–data types– declaration. Operators– types– precedence Expressions Program flow Decision statements if .. then, if..then..else, select..case
- **2.2. Loop statements** while..end while, do..loop, for..next, for..each..next.
- **2.3. Types:** Value data types Structures, Enumerations. Reference data types Single dimensional Multi-dimensional arrays–Jagged arrays– Dynamic arrays
- **2.4 Classes & objects** Abstract & override methods Creating and using your own classes Data members and member methods Instantiate an object This keyword

UNIT-III WINDOW APPLICATION USING WINDOW FORMS

10 Hours

- **3.1 Windows programming**-Creating windows Forms-Working with Toolbox Controls- Button, Check Box, Combo Box, Label, List Box, Radio Button, Text Box, Group Boxes, Picture Box
- **3.2. Advanced Controls & Events**: Timer, Progress Bar, Month Calendar, ToolTips, Tab Controls, Panels-Events-Click, Close, Deactivate, Load, MouseMove, MouseDown, MouseUp, Keypress, KeyDown, KeyUp
- **3.2. Advanced Controls & Events**: Timer, Progress Bar, Month Calendar, ToolTips, Tab Controls, Panels -Events-Click, Close, Deactivate, Load, MouseMove, MouseDown, MouseUp, Keypress, KeyDown, KeyUp
- **3.3 Multiple Document Interface (MDI) Forms** Creating MDI Applications Creating MDI Child Windows Arranging MDI Child Windows
- **3.4 Menus and Dialog Boxes** Creating menus Menu items Creating Submenus, Menu Shortcuts, Context menu Using dialog boxes show Dialog() method.

UNIT-IV APPLICATIONDEVELOPMENTUSINGADO.NET

10 Hours

- **4.1 FeaturesofADO.NET**. Architecture ofADO.NET ADO.NET providers connection Command–Data Adapter–Dataset.
- **4.2 Accessing Data with ADO.NET**: connecting to Data Source, Accessing Data with Data set and Data Reader Modifying Table data using Command Objects Understanding Data Set and working with Data Column and DataRow Data Tables Working with Data GridView
- **4.3 Create an ADO.NET application** Using Stored Procedures.

UNIT-V XML 10 Hours

- **5.1 Introduction**: Advantages –HTML Vs XML–Browsing and parsing XML–Creating a XML file–Datails and–Wellformed XML document–XML components-elements–Entities–Comments–Processing instructions–Attributes
- **5.2. DTD**: Declarations in DTD: Element, Attribute, Entity and Notation–Construction of an XML document XML Namespaces –Declaring name spaces –Default namespaces XML schema–Need and use of Schema–Building blocks–Simple elements–Defining attributes–Complex elements

5.3. XMLwith.NET:XMLSerializationinthe.NETFramework–SOAPFundamentals–Using SOAP with the .NET Framework.

REFERENCES:

S.No	Title	Author	Publisher	Year of Publishing / Edition
1.	Introducing Microsoft .NET	David S.Platt	Microsoft Press	SaarcEdition, 2001