Course Title: VB.NET   **Course Code: 20CERVB1**
Course Duration: 30 Hrs.   **Credits: 1**

Objectives
- To introduce programming using VB.NET.
- To emphasize on fundamentals of structured design, development, testing, implementation, and documentation.
- To develop advanced skills in creating user interfaces and managing software properties.

Course Outcomes
CO1: Code programs and develop interface using Visual Basic .Net
CO2: Create applications using Microsoft Windows® Forms.
CO3: Create Crystal Reports.

UNIT – I   **(10 Hrs.)**
Introducing .NET Framework:
Introduction, Overview of .NET Framework, Objectives of .NET Framework, Architecture of .NET Framework, installing Visual Studio, Opening Visual Studio, Introduction to Visual Studio IDE.
Getting Started with Visual Basic:
Introduction, Visual Basic Statement, Visual Basic Keywords, Operators and their Precedence, Data types, Variables, Constants, Creating a Window Application using Visual Basic

UNIT – II   **(10 Hrs.)**
Introduction to Windows Forms:
Introduction, A Window Form in Visual Basic, Performing some basic operations on a Windows Form, Working with Windows Controls, Showing and Hiding Forms and

Controls, Moving and Resizing Forms and Controls through code, working with multiple Forms, Creating a Message Box, Creating an Input Box.

Basic Programming:

Introduction, If -Then-Else Statement, For Loop Statement, Do Loop Statement, Select Case Statement, While- End While Statement, Arrays.

Standard Controls:

Introduction, Button and Label Controls, Check Boxes, Radio Button, Group Boxes, Panel Control, Picture Boxes, ProgressBar and Timer Controls, TextBox and Rich TextBox Controls, ListBox Control, ListView Control, LinkLabel Control

UNIT – III   **(10 Hrs.)**

Menus, Build-in Dialog Boxes, and Printing:

Introduction, Menus, FloderBrowserDialog control, OpenFile Dialog control, Save File Dialog control, FontDialog control, Print Document control, PrintDialog control.

Mouse and Keyboard events:

Introduction, Mouse Events. Differentiate between Single and Double Click, Keyboard Events.

Working with Databases:

Basic SQL Commands, Overview of ADO.NET Objects, Accessing Data using Data Adapters and Data Sets.

Prescribed Books:

1. Visual Basic with .NET Framework -Simple Steps, DreamTech Press.
2. VB.NET , P. Radhaganeshan, SCITECH.
3. Mastering Visual Basic, Evangelos Petroutsos, BPB Publications.