

Dot Net Programming

Semester V	Subject Code: BC51703	Lectures: 60
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Objectives:

The syllabus aims in equipping students with,

- Understanding visual programming and event driven programming practically
- Learning the concepts of VB.Net
- Understanding the basics of ASP.Net

Unit 1: Introduction to .Net Framework and VB.Net

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- IDE (Integrated Development Environment)
- Event Driven Programming
- . NET Framework
- Architecture of .Net
- Execution Process of .Net Application
- Features of .Net , Advantages of .Net
- **Develop simple .Net Application**
- Basics of VB.Net :Operators , Data Types
- Control Structures : Decision making statements, Loops - For, while, do while etc. 2.3 Exit Statements
- Build Console Applications : Methods - Read(), Readline(), Write(), Writeline() etc.
- **Build Windows Applications** : Controls - Form, TextBox, Button, Label, CheckBox, Listbox, ComboBox, RadioButton. DateTimePicker, MonthCalender, Timer, Progressbar, Scrollbar, PictureBox, ImageBox, ImageList, TreeView, ListView, Toolbar, StatusBar, Datagridview, Menus and PopUp Menu, Predefined Dialog controls, DialogBox - InputBox(), MessageBox(), MsgBox()

Unit 2: Architecture of ADO.NET

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- **Database : Connection, Command, DataAdapter ,DataSet, DataReader, DataTable**
- **Connection to database with Server Explorer**
- **Multiple Table Connection**
- Data binding with controls like TextBox, ListBox, DataGrid.
- Navigating data source 4.6 DataGrid View, DataFormwizard, Data validation



Unit 3: Crystal report	06
<ul style="list-style-type: none"> • Connection to Database, Table, Queries, Building Report, Modifying Report, formatting Fields and Object • Header, Footer, Working with formula fields, Parameter fields, Special fields • Working with Multiple Tables 	
Unit 4: Object oriented Programming in VB.Net	08
<ul style="list-style-type: none"> • Class and Object • Properties, methods and events • Constructors and Destructors • Method overloading • Inheritance :MyBase , MyClass keywords. • Access modifiers: Public, Private, Protected, Friend • Method Overriding • Interfaces • Polymorphism • Exception Handling 	
Unit 5: Introduction to ASP.Net	08
<ul style="list-style-type: none"> • Creating web applications • Working with web forms • Data preservation in Client and Server • Multiform web application • Web forms : Buttons, Text Boxes, Labels, Check Boxes, Radio Buttons, Tables, Panels, Images, Image Buttons, List Boxes, Drop-Down Lists, Hyperlinks and Link Buttons • Reading from database: Data Pages, ADO.NET • ASP.Net Server controls: ASP.NET Web Controls, HTML Server Controls 	

*Contact hours – 12 hours

Recommended Text Book:

✓ *.Net Programming*, Mrs Meenakshi Thalor, Nirali Publication 2015

Reference Books:

1. Steven Holzner, *Visual Basic .NET 2003 in 21 Days*, SAMS Publications
2. *Mastering Crystal Report* - BPB Publication
3. Jeffrey R. Shapiro, *The Complete Reference -Visual Basic .NET*
4. *Beginning ASP.NET 3.5*, Wrox Publication
5. Jesse Liberty, Dan Maharry, Dan Hurwitz, O'Reilly, *Programming ASP.NET 3.5*