

**Course: Major Elective
Dot Net Programming**

Semester: II	Credits: 4	Subject Code:SMAJCDNP223557	Lectures: 60
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Course Outcomes:

At the end of the course, the learner will be able to:

- CO1-Understand the fundamentals of DOTNET framework and C# programming languages.
- CO2-Design and develop web-based .NET applications using VB.NET.
- CO3- Represent Object-Oriented principles applied in ASP.NET
- CO4- Evaluate appropriate data storage and data access strategy based on type, size of the data and need for data security.
- CO5-Analyze the problem statement and choose appropriate features / technologies to provide solutions and communicate observations.
- CO6- Identify different approaches for building service-oriented applications as well as create and use libraries for solving real life problems.

Unit 1:Introduction to Dot Net Framework	15
<ul style="list-style-type: none"> • Introduction to DOT NET FRAMEWORK-What is Framework? ,Architecture of Dot Net Framework : Common Language Runtime ,Common Type System(CTS) ,Common Language Specification(CLS),JIT Compilers , Base Class Library, IDE (Integrated Development Environment) ,Event Driven Programming • Introduction to VB.Net -Basics of VB.Net:Operators, Data Types,Control Structures ,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: Color,Save,File,Open, Font , DialogBox – InputBox(), MessageBox, MsgBox() 	

Unit 2:Introduction to C#	15
<ul style="list-style-type: none"> • Introduction to C# • Language Fundamentals- Data type and Control Constructs, Value and Reference Types, Boxing, Arrays, String class and its various operations, Functions • Object Oriented Concepts- Defining classes and Objects, Access modifiers,Constructors,Inheritance,Interface,Abstract Class,Method Overloading and Overriding, Delegates 	

Unit 3:Introduction to ASP.Net	15
<ul style="list-style-type: none"> • What isASP.NET? • ASP.NET Page Life Cycle • Architecture ofASP.NET • Forms, Web Pages, HTML forms 	

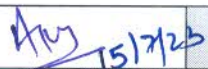

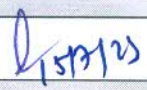
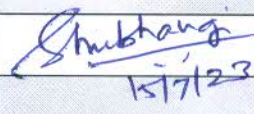
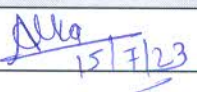

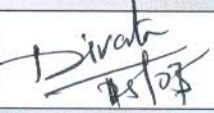
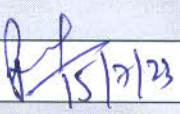
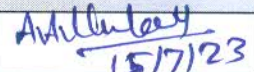
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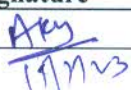
<ul style="list-style-type: none"> Request & Response in Non-ASP.NET pages Using ASP.NET Server Controls Overview of Control structures Functions HTML events- ASP.NET Web control events,Event driven programming and postback Introduction to Web forms-Web Controls, Server Controls,Client Controls,Navigation Controls,Validations,Master Page,State Management Techniques 	
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Unit 4:Introduction to Ado.Net	15
<ul style="list-style-type: none"> Basics of Ado.net-Connection Object,Command Object,Dataset,Data Table,Data Reader Object,Data Adapter Object Datagridview and Data Binding- Insert, Update, Delete records Navigation Using Data Source 	

Reference Books:
<ul style="list-style-type: none"> Anne Prince and Doug Lowe,VB.NET database programming with ADO.NET,CRC Press Francesco Balena, Programming Microsoft Visual Basic.NET, Microsoft Press Imar Spaanjaars, Beginning ASP.NET3.5, Wrox Publication Jefrey R. Shapiro, The Complete Reference -Visual Basic .NET, McGraw-Hill Education Jesse Liberty, Dan Maharry, Dan Hurwitz, ProgrammingASP.NET3,O'Reilly Karli Watson, David Espinosa, Zach Greenvoss,Beginning Visual C#, WroxPublication Peter D, Blackburn, William,ADO.NET Examples and Best Practices for C# Programmers, APress

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