

Dot Net Framework
Dot Net Framework
[CORE COURSE]

Semester: VI	Credits: 3	Subject Code: BC62204	Lectures: 48
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Course Outcomes:

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

- Use the features of Dot Net Framework along with the features of VB, C# and ASP
- Design and develop window based and web based .NET applications
- Design and develop a Website
- Design and Implement database connectivity using ADO.NET for VB, C# and ASP

Unit 1: Introduction to .Net Framework and VB.Net	16
<ul style="list-style-type: none"> • What is Framework? • Architecture of .Net <ul style="list-style-type: none"> ○ Common language Runtime ○ Common Type System(CTS) ○ Common Language Specification (CLS) ○ JIT compliers ○ Base Class Library • IDE (Integrated Development Environment) • Event Driven Programming • Basics of VB.Net : <ul style="list-style-type: none"> ○ Operators ○ Data types ○ Control Structures • Build Windows Applications : Controls - Form, TextBox, Button, Label, CheckBox, Listbox, ComboBox, RadioButton, DateTimePicker, MonthCalendar, Timer, Progressbar, Scrollbar, PictureBox, ImageBox, ImageList, TreeView, ListView, Toolbar, StatusBar, Datagridview • Menus and PopUp Menu • Predefined Dialog controls, DialogBox InputBox(), MessageBox(), MsgBox() 	
Unit 2: Introduction to C#	12
<ul style="list-style-type: none"> • Language Fundamentals <ul style="list-style-type: none"> ○ Data type and Control Constructs ○ Value and Reference Types, Boxing 	



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Head of the Department	Ms Smita Borkar	<i>[Handwritten Signature]</i>

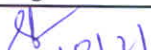
<ul style="list-style-type: none"> ○ Arrays ○ String class and its various operations ○ Functions ● Object Oriented Concepts <ul style="list-style-type: none"> ○ Defining classes and Objects ○ Access modifiers ○ Constructots ○ Inheritance ○ Interface ○ Abstract class ○ Method Overloading and Overriding ○ Delegates 	
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Unit 3: Introduction to ASP.NET	10
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<ul style="list-style-type: none"> ● What is ASP.NET? ● ASP.NET Page Life Cycle ● Architecture of ASP.NET ● Forms, WebPages, HTML forms, ● Request & Response in Non-ASP.NET pages ● Using ASP.NET Server Controls ● Overview of Control structures ● Functions ● HTML events <ul style="list-style-type: none"> ○ ASP.NET Web control events ○ Event driven programming and postback ● Introduction to Web forms <ul style="list-style-type: none"> ○ Web Controls ○ Server Controls ○ Client Controls ○ Navigation Controls ○ Validations ○ Master Page ○ State Management Techniques 	
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Unit 4: Architecture of ADO.Net	10
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<ul style="list-style-type: none"> ● Basics of Ado.net <ul style="list-style-type: none"> ○ Connection Object ○ Command Object ○ Dataset ○ Data Table ○ Data Reader Object ○ Data Adapter Object 	
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- Datagridview& Data Binding: Insert, Update, Delete records
- Navigation Using Data Source

#12 hours for Library work, assignments, practical or field work

Recommended Text Books:

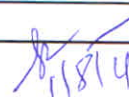
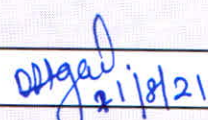
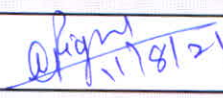




- *Beginning Visual C#,* Wrox Publication
- *Beginning ASP.NET3.5,* Wrox Publication

Reference Books:

- *Beginning Visual C#,* Wrox Publication
- *Beginning ASP.NET3.5,* Wrox Publication
- Anne Prince and Doug Lowe ,*VB.NET database programming with ADO.NET*
- Francesco Balena ,*Programming Microsoft Visual Basic.NET*
- Jesse Liberty, Dan Maharry, Dan Hurwitz , *Programming ASP.NET3.5* ,O'Reilly
- Jeffrey R. Shapiro , *The Complete Reference -Visual Basic .NET*
- Peter D, Blackburn, William, *ADO.NET Examples and Best Practices for C# Programmers*

Websites:

- www.w3school.com

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Head of the Department	Ms Smita Borkar		
Faculty*	Asst Prof. Deepali Gupta		
Faculty*	Asst Prof Monika Rajguru		
Subject Expert (Outside SPPU)	Dr.Sachin Bhoite		
Subject Expert (Outside SPPU)	Dr. Sagar Jambhorkar		
VC Nominee	Prof Anjum Patel		
Industry Expert	Ms. Shrutika wayal		
One Alumni***	Ms. VidhiThakkar		



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