

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI -51

1	Name of Syllabus	C.C. In <i>ASP NET 2.0 Programming with V B. NET (101116)</i>																																																
2	Max. No of Student	25 Students																																																
3	Duration	6 Months																																																
4	Type	Part Time																																																
5	No Of Days / Week	6 Days																																																
6	No Of Hours /Days	4 Hrs																																																
7	Space Required	Practical Lab = 300 Sq feet <u>Class Room = 200 Sq feet</u> TOTAL = 500 Sq feet																																																
8	Entry Qualification	H.S.C. Passed																																																
9	Objective Of Syllabus/ introduction	Student should achieve expertise in ASP.NET																																																
10	Employment Opportunity	Self Employment:-Candidate Can develop software and web based application.net Developer Job Opportunities:- After Graduation Candidate have opportunities in IT Companies as .net																																																
11	Teacher’s Qualification	MCS/MCM/MCA/BE/DIPLOMA																																																
12	Training System	<table><tr><th colspan="7">Training System Per Week</th></tr><tr><td>Theory</td><td>Practical</td><td colspan="5">Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td colspan="5">24 Hours</td></tr></table>							Training System Per Week							Theory	Practical	Total					6 Hours	18 Hours	24 Hours																									
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13	Exam. System	<table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Min. Marks</th></tr><tr><td>1</td><td>10111611</td><td>OBJECT ORIENTED PROGRAMMING</td><td>TH-1</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>2</td><td>10111612</td><td>ASP.NET PROGRAMMING</td><td>TH-2</td><td>3 hrs.</td><td>100</td><td>35</td></tr><tr><td>3</td><td>10111621</td><td>OBJECT ORIENTED PROGRAMMING</td><td>PR-1</td><td>3 hrs.</td><td>100</td><td>50</td></tr><tr><td>4</td><td>10111622</td><td>ASP.NET PROGRAMMING</td><td>PR-2</td><td>3 hrs.</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>170</td></tr></table>							Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max. Marks	Min. Marks	1	10111611	OBJECT ORIENTED PROGRAMMING	TH-1	3 hrs.	100	35	2	10111612	ASP.NET PROGRAMMING	TH-2	3 hrs.	100	35	3	10111621	OBJECT ORIENTED PROGRAMMING	PR-1	3 hrs.	100	50	4	10111622	ASP.NET PROGRAMMING	PR-2	3 hrs.	100	50			Total			400	170
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4	10111622	ASP.NET PROGRAMMING	PR-2	3 hrs.	100	50																																												
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CURRICULUM :- ASP NET 2.0 Programming with V B. NET

OBJECT ORIENTED PROGRAMMING --Theory & Practical - I

SR.NO	TOPIC NAME
1	Introduction to .NET Overview of the .NET Framework How .NET is Different from Traditional Programming Common Language Runtime (CLR) Common Language Specification (CLS) Common Type System (CTS) Overview of .NET Assemblies Microsoft Intermediate Language (MSIL) .NET Namespaces .NET Framework Classes
2	Introduction to Visual Studio.NET Setting Profiles Creating a Project Using the Solution Explorer Setting Project Properties Adding References Using the Code Editor Compiling a Program Running a Program
3	Language Fundamentals VB.NET Project Types Program Structure Defining Namespaces VB.NET Data Types Declaration and use of Variables and Constants Operators and Expressions Console I/O Type Conversions and Type Checking
4	Conditionals and Looping If If/Else If/Elseif/Else Select Case Do/Loop While For/Next For Each/Next

5	Procedures and Parameters <ul style="list-style-type: none"> Subroutines vs. Functions Parameters Passing by Value Passing by Reference Value Types versus Reference Types The Stack The Heap Procedure Overloading Variable Length Parameter Lists Type Checking Static Members
6	Exception Handling <ul style="list-style-type: none"> What are Exceptions Catching Exceptions .NET Exception Hierarchy Throwing Exceptions Managing Resources with Finally Defining Custom Exception Types
7	Data Structures <ul style="list-style-type: none"> Defining and Using Arrays Using System.Array Defining and Using Structures Defining and Using Enumerations Using System.Enum Using .NET Collections Array List Hash table
8	Object-Oriented Programming Concepts <ul style="list-style-type: none"> Purpose of Object-Oriented Programming Building Classes Creating Objects Using Inheritance with .NET Classes Understanding the Role of Interfaces in .NET <ul style="list-style-type: none"> ICollection ICollection IDictionary IDbConnection IDbCommand
	Overview Of Web Application Technology <ul style="list-style-type: none"> Static vs. Dynamic Web Sites Dynamic Content from Databases Client-Side Scripting vs. Server-Side Scripting

ASP.NET PROGRAMMING --- Theory & Practical - II

SR. NO	TOPIC NAME
1	ASP.NET 2.0 Features ASP.NET 2.0 as a Programming Framework Power of Web Forms Tying Together the Server-Side and Client-Side Architecture
2	Creating ASP.NET 2.0 Pages How to Build ASP.NET 2.0 Pages Elements of a Web Form Page Directives Use of Code Behind Pages Life-cycle of a Web Form Handling Page Object Events Application Folders
3	Using Controls HTML Controls Web Controls Creating Controls at Runtime Custom User Controls
4	Validation in ASP.NET 2.0 How Validation Controls Work Server-Side Validation Client-Side Validation Regular Expressions Customizing Validation Disabling Validation Working with Validation Groups
5	Handling Events Event Driven Programming Model Common Event Categories Writing Event Handlers Sharing Event Handlers between Events PostBack and Non-PostBack Events Global.asax
6	Maintaining State The Web is Stateless Techniques to Maintain State Application Object Session Object Page Object and ViewState Cookies
7	Master Pages The Basics of Master Page Coding a Master Page Coding a Content Page Event Ordering

8	ADO.NET 2.0 The ADO.NET 2.0 Object Model Client-Side vs. Server-Side Cursors Connected vs. Disconnected Access Using Connection Classes to Connect to a Data Source Using Command Classes to Execute Queries and Stored Procedures Insert, Update and Delete with ADO.NET Using DataReader Classes to Work with Cursors Using the DataSet Class with Disconnected Data Using DataAdapter Classes with DataSets
9	Data Binding in ASP.NET 2.0 Binding ASP.NET 2.0 Controls to a Data Source Using the ListBox Control Using the GridView Control Using the DetailsView Control Using the FormView Control Using the Repeater Control
10	Securing ASP.NET 2.0 Applications Security Basics ASP.NET 2.0 Authentication ASP.NET 2.0 Authorization Using the Web Site Administration Tool
11	File Upload Using the FileUpload Control Uploading Binary and Text Files to a Server Setting Size Limitations on Files to be Uploaded
12	E-mail Using SMTP Mail Servers Constructing E-Mail Messages Sending E-mail Attachments
13	Using XML in ASP.NET 2.0 Introduction to XML and XML Schemas Reading XML Data with a DataSet Writing XML Data with a DataSet
14	Introduction to Web Services Web Services Architecture Web Service Programming Model Understanding SOAP Messages Creating Web Services using VB.NET Protocols for Accessing Web Services Consuming a Web Service Using WSDL and Proxy Classes
15	Reading and Writing Files System.IO Namespace Examining Files and Directories Opening Files Reading Files Writing Files
16	Deploying ASP.NET 2.0 Applications Issues with Deployment Using Publish Option Using XCOPY Deployment Using Web Setup Projects

Reference Books

Wiley Publishing, Inc.

Professional ASP.NET 2.0 XML

Thiru Thangarathinam

Published by

Wiley Publishing, Inc.

Professional ASP.NET 2.0 Special Edition

by Bill Evjen, Scott Hanselman, Devin Rader, Farhan Muhammad, Srinivasa Sivakum

Leverage LINQ in ASP.NET 3.5 Projects

by Roger Jennings

Professional ASP.NET 2.0 Design: CSS, Themes, and Master Pages

by Jacob J. Sanford
