Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon, Ordinance 181

College Name : - Institute of Management Research and Development, Shirpur

Title of the Course : - **Certificate Course in .NET Framework**

Aims / Objective : - To introduce C#.Net and ASP.Net and its implementation for website designing.

Duration of the Course : - 1 Year

Course Structure : - **1)** Paper I – Programming using C# .Net
2) Paper II – Programming with ASP.Net
3) Paper III- Practical on C# and ASP.Net

Eligibility of the Course: - Student passed in the Higher Secondary Examination (HSC) (10+2) or equivalent examination.

SN	Paper	Name of the subject	Theory / Practical	Teaching Hours	Maximum Marks Allotted			Passing			Credit
					Ext	Int	Total	Ext	Int	Total	
01	Paper I	PC#	THEORY	90	60	40	100	24	16	40	6
02	Paper II	ASP.Net	THEORY	90	60	40	100	24	16	40	6
03	Paper III	PC#ASP	PRACTICAL	120	60	40	100	24	16	40	8

Minimum Staff : - 03 Three

Mode of Examination : - English (Theory & Practical)

Detailed Syllabus : - Attached

Paper I: Programming using C# .Net (90 Hrs.)

Unit 1: - Introduction to C# (15Hrs.)
C# Features, Variables, Data Types,
Operators, Keywords

Unit 2: - Control Statements (20Hrs.)
If-else, Switch, For Loop,
While Loop,
Do-While Loop,
Break,
Continue, Goto, Comments.

Unit 4:- Functions (15Hrs.)
What is function?
Call by Value,
Call by Reference,
Out Parameter

Unit 5:- Object Oriented Programming with C# (20Hrs.)
OOPs Concepts,
Partial Classes and Partial Methods,
Methods and Parameters,
String Handling,
Abstract, Classes and Interfaces.

Unit 6:- Arrays (20Hrs.)
Array,
Array to Function,
Multidimensional Array,
Jagged Array,
Params, Array Class,
Command Line Args

References:

1) Solis, (2008), Illustrated C#, Publication APRESS, ISBN: 978-81-8128-958-2
2) Christian Nagel, Bill Evjen, Jay Glynn, Karli Watson and Morgan Skinner, (2010), Professional C# 4.0 and .NET 4, WROX, ISBN: 978-0-470-50225-9
3) Dan Clark, (2011), Beginning C# Object-Oriented Programming, 2nd Edition, Apress, ISBN-13: 978-1430249351.

Paper II: Programming with ASP.Net   (90 Hrs.)

Unit 1: - Introductions   (15Hrs.)

What is ASP.NET, .NET Framework, ASP.NET Directory Structure,

.Net Different Directives,
The ASP.NET Page Life Cycle,
ASP.NET Page events,Inline Coding & Code Behind Mode

Unit 2: - ASP.NET Controls   (15Hrs.)

Difference between HTML Controls and ASP.NET Controls,

ASP.NET Controls, Label, Textbox, Button,
Link Button, Image Button,
 Dropdown List, List,
Checkbox, Radio Button,
Hyperlink, File Upload Controls

Unit 3:- ASP.NET Rich Controls   (20Hrs.)

Calendar Control, Ad-Rotator Control,
ASP.NET validation controls:-
Compare Validator, Range Validator,
Regular Expression Validator,
Required Field Validator, Validation Summary

Unit 4:- ASP.NET Page Designing   (20Hrs.)

What is CSS? Internal CSS,   External CSS, Themes,
Control Level Theme, Page Level Theme,
Application Level Theme, Skins.

Unit 5:- ASP.NET - Event Handling   (20Hrs.)

What is event handling? Event Arguments,
Page and Control Events, Event Handling Using Controls,
Click Event,   Command Event, Text Changed Event,
Selected Index Changed Event, Checked Changed Event.

References:

1. Bill Evjen ,Scott Hanselman, Devin Rader, Professional Asp .Net 3.5 in C# and VB ,Wiley Publishing Inc. ISBN:978-0-470-18757-9.
2. Dino Esposito, Programming Microsoft ASP.NET 3.5, Microsoft Press, 2008

Paper – III: Practical on C# and ASP.NET   (120 Hrs.)

1) Create a C# .NET application demonstrate to If else, Switch statements.
2) Create a C# .NET application demonstrate to Looping Statements.
3) Create a C# .NET application demonstrate to Functions.
4) Create a C# .NET application demonstrate to Call by Value.
5) Create a C# .NET application demonstrate to Call by References.
6) Create a C# .NET application demonstrate to Array.
7) Create a C# .NET application demonstrate to Multi-Dimensional Array.
8) Create a C# .NET application demonstrate to Interfaces
9) Demonstrate Page Life Cycle of ASP.NET. Use important page events for your demonstration.
10) Create an ASP .NET application demonstrate student registration form.
11) Create an ASP .NET application demonstrate employee registration form.
12) Create an ASP .NET application demonstrates Validation Controls.
13) Create an ASP .NET application demonstrates Internal CSS
14) Create an ASP .NET application demonstrates External CSS
15) Create an ASP .NET application demonstrates Theme and Skins.