GOVERNMENT OF TAMILNADU
DIRECTORATE OF TECHNICAL EDUCATION,CHENNAI
STATE PROJECT COORDINATION UNIT
(Established under Canada India Institutional Cooperation Project)

CURRICULUM

Course Name	**ASP .NET WITH C#**
Course Code	**CSE/2020/009**
Course Duration	80 Hours
Minimum Eligibility Criteria and Pre-requisites(if any)	ITI/10th/+2/Diploma/Graduates Basic knowledge of programming C concept
Course Objectives	Training module has been designed to provide the participants • To provide the knowledge of Dot Net frameworks along with ASP .Net and C#. • To provide knowledge about databases • Create a Web form with server controls • Separate page code from content with code-behind pages, page controls, and components • Display dynamic data from a data source by using ADO.NET and data binding • Debug .NET Active Server Pages
Course Outcomes	• At the end of training, the participants will be able to • After completion of the course student will be able to use the features of DotNet framework along with the features of ASP .Net and C#. • Create a Web form with server controls. • Separate page code from content by using code-behind pages, page controls, and components. • Display dynamic data from a data source by using Microsoft ADO.NET and data binding. • Debug ASP.NET pages by using trace.
Expected Job Roles	• Dot Net Software Developer, • Software Analyst • ASP.Dot Net Developer

TEACHING AND SCHEME OF EXAMINATION						
Course Code	Course Name	Hours		Assessment Marks		Duration of Examination
				Min	Max	
CSE/2020/009	**ASP .Net with C#**	Theory	30	10	20	3 Hours
		Practical	50	40	80	
		Total	80	50	100	

CSE/2020/009 - ASP .NET WITH C#

DETAILED SYLLABUS

UNIT NO	MODULES	NO.OF.HOURS THEORY
I	INTRODUCTION TO ASP .NET WITH C#	
1.1	**.**Net Framework and CLR	10
1.2	Base Class Library	
1.3	Data Types	
1.4	Statements - Arrays - Using Strings s	
1.5	Objects - Classes - Structs - Properties - Inheritance - Polymorphism - Overloading - Overriding -	
1.6	Namespaces - Exception Handling - Assemblies	
II	DATABASE	
2.1	MSSQL Server	10
2.2	Relational databases	
2.3	Creating, Editing and Updating table information - SQL Query	
III	ASP DOT NET AND WEBSITE DEVELOPMENT	
3.1	Basics of HTML and CSS3	10
3.2	Standard controls, themes, skins	
3.3	Security Validation Controls- Data controls	
3.4	ADO .NET - Sending Emails	
3.5	Master Pages	
3.6	Navigation Controls	
3.7	Grid View Control.	
	Total Theory Hours	**30**
	Total Practical Hours	**50**
	Total Hours	**80**

PRACTICAL (50 HOURS)

1.   Write a program using Arrays in C#.

2.   Write a program to accept a number from the user and throw an exception if the number is not an even number.

3.   Write a program to implement the following multiple inheritance using interface.

4.   Write a c# form program for Radio button control.

5.   Create a Web App to display all the Empname and Deptid of the employee from the database using SQL source control and bind it to Grid View . Database fields are(DeptId, DeptName, EmpName, Salary.

6.   To create a web page to display the news from the news table(id, news_dtl). Use AJAX.

7.   To write a program to connect to the database in SQL Server.

8.   Write a program that uses a textbox for a user input name and validate it for Required Field Validation.

9.   Write a program using function overloading to swap two integer numbers and swap two float numbers

10.   To design & develop ASP.net web application use master & content page.

11.   Write a program to Select the names of the employees from the emps table. Retrieve the result in a Dataset and display it in a Checkbox List.

12.   Create a user control that receives the user name and password from the user and validates them. If the user name is "Radiant" and the password is "asp.net" then the user is authorized, otherwise not

13.   Write a program to implement web forms using images, hyperlinks.

14.   Write a program to Set the label border color of roll no to red using css.

15.   Design a web page to display the employee information from table to grid control. Use LINQ TO Objects.

HARDWARE REQUIREMENT

S.NO	LIST OF TOOLS /EQUIPMENTS
1	Desktop computer
2	Printer

SOFTWARE REQUIREMENT

S.NO	LIST OF SOFTWARE
1	Microsoft Visual Studio 2008
2	Microsoft SQL Server 2005 or higher
3	Web browsers with JavaScript enabled

REFERENCE BOOKS

S.NO	NAME OF THE BOOK	AUTHOR	PUBLISHER
1.	"ASP.NET: The Complete Reference"	Matthew Macdonald	McGraw-Hill Osborne Media (February 21, 2002)
2.	"ASP.NET 4.5 in Simple Steps"	Kogent Learning Solutions Inc	Wiley India; 1 edition (January 1, 2013)
3.	"ASP.NET 4.5, Covers C# and VB Codes, Black Book"	Wiley India	Kogent Learning Solutions Inc; 1 edition (January 1, 2013)
4.	"Professional ASP.NET 4.5 in C# and VB (WROX)"	Jason N Gaylord and Christian Wenz	Wrox; 1 edition (May 6, 2013)
5.	"C# and ASP.NET Projects"	Shivprasad Koirala and Rajesh Pillai	BPB Publications (December 1, 2007)
6.	"ASP.NET Core Application Development – Building An Application in Four Sprints"	James Chambers and David Paquette	Microsoft Press; 1 edition (December 16, 2016)

ASSESSMENT AND CERTIFICATION

S.No	Criteria for assessment
1.	A trainee will be assessed based on the performance in End Examination for Theory and Practical conducted internally in the Project Polytechnic College for a duration of 3 hours
2.	A trainee must have 75% of attendance to appear for End examination in Theory and Practical.
3.	The assessment for theory part will be based on the marks scored in the end examination on the knowledge bank of questions (1 word/objective type questions)
4.	The assessment for practical part will be based on the marks scored in the end examination conducted by the Project Polytechnic and assessed by the Examiners approved by Strategic Plan Implementation Committee (SPIC) of the project polytechnic.
5.	The criteria for successful completion of training is every trainee should score 50% of marks in theory and practical examination.
6.	On successful completion of training , Certificate will be issued to the participants by the Directorate of Technical Education through the Project Polytechnic.

END EXAMINATION

ALLOCATION OF MARKS

S.No	Description	Max.Marks
1.	Theory Examination	20
2.	Practical Examination	
	a)Procedure	10
	b)Execution	30
	c)Output	20
	d)Record	20
	Total Marks	**100**

THEORY MODEL QUESTION PAPER

CSE/2020/009 - ASP.Net with C#
(Maximum Marks : 20)

(N.B: Answer any **twenty** questions)   **20 x 1 = 20 Marks**

1. MSIL Stands for?

2. The Common Language Runtime (CLR) manages allocation and _____of a managed object in memory.

3. An array is the data structure that stores a fixed number of literal values (elements) of the _____

4. Which keyword is used to refer base class constructor to subclass constructor?

5. _____ violates the definition of Encapsulation.

6. Which Feature of OOP encourages the code Reusability?

7. C # does not support _____ Constructors.

8. Namespaces are logical grouping of types for the purpose of _____

9. The releasing of unreferenced objects is happening automatically .NET language by the _____

10. Boxing is a process of converting value type _____

11. A _____ is stored in the global assembly cache(GAC), which is a repository assembly maintained by .NET runtime.

12. What is the use DROP TABLE command?

13. What is the Statement used to create VIEW.

14. _____clause to retrieve data only from selected rows.

15. _____deletes all records of a table and the table itself from the database.

16. What is the use of Update Statement in SQl .

17. Master pages are used to provide the code and appearance that are the same for a series of _____

18. What are the Common Properties of Validation Controls of Asp .Net?

19. Validation Summary control in A Webpage_____

20. The Method Applied to change the styles of the elements in a Asp .net Webpage is Called _____

21. In Asp .NET Client-Side validation is possible with _____

22. What is the extension for a skin file?

23. What are the 2 types of control skins in ASP.NET?

24. SSL Stands for?

25. How do you identify a Master Page?