

<b>Branch Name:</b>	IMCA
<b>Program Code:</b>	CS301
<b>Course Name:</b>	Web Development with ASP.NET
<b>Course Code:</b>	1CS3010604T
<b>Pre-requisite Course:</b>	Knowledge of the C and C++ Language Logic and Concept and database SQL concepts

**Course Objectives:**

1. This course is intended to make the students aware of web programming concepts.
2. Students are expected to learn various terminologies related to web programming such as web servers, Server controls, web page life cycle, Ajax technology etc.
3. The course aims to make the students formulate a website using web programming.
4. To be able to create Web applications on the .Net Platform.
5. To be able to create Web applications involving data storage in SQL and My SQL Server database.
6. Learn to deploy the Web Application to the world via .Net framework.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture	Tutorial	Practical	Credit	Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
4	-	-	4	60	40	-	-	100

Subject Contents			
Sr. No	Topic	Total Hours	Weight (%)
1	<b>ASP.Net:</b> Introduction to ASP.Net, Creating ASP.Net Web Page, Website, Web Solution, Events in Life cycle of Web application, ASP.NET Page Life Cycle Events, ASP.Net Server Control Events, IIS Server, Difference between Window based and Web based Applications.	10	25
2	<b>Working with ASP.Net Standard Controls:</b> Label, Text box Button, Link Button, Image Button, Hyperlink, List Box, Dropdown List Checkbox, Checkbox List, Radio Button, Radio Button List, Bulleted List, Image, Table, Panel, File Upload.	10	25
3	<b>Validation Control:</b> Required Field Validator, Range Validator, Regular Expression Validator, Compare Validator, Custom Validator, Validation Summary. <b>Rich Controls:</b> Calendar Control, AdRotator Control, Multiview Control.	8	15
4	<b>Navigation Control:</b> Menu Control, TrueView Control, Sitemap Path Control. <b>Ajax Technology:</b> Need of Ajax, Script Manager Control, Update Panel Control, Update Progress Control, Timer Control.	10	25
5	<b>State management:</b> View State, Session State, Application State, Query String, Cookies. <b>Debugging and Error Handling:</b> Introduction to various types of Errors, Exception & Exception Handling, Exception Handling using try and catch, Finally Basic Concept of Master Page, Context Holder, Skim, Theme, Style in Web Application	10	10

**Text Books:**

1. Enterprise Applications with C# and .NET @2023 By Malavasi Alexander.
2. Beginning ASP.NET 4.5 in C# in @2012 By Matthew McDonalds.

**Reference Books:**

**List of References:**

1. Beginning ASP.NET 4 in C# 2010 (Expert's Voice in .NET), By Matthew MacDonald (Author), Published by Apress.
2. C# 2010 Programming Black Book, By Kogent Learning Solutions Inc.
3. C# 4.0 The Complete Reference, By Herbert Schildt, Tata McGraw-Hill Publishing Company Limited.

**Course Learning Outcomes (CLO): On completion of this course, the students will be able to:**

CLO	Description	Bloom's Taxonomy Level
CLO1	To understand the major tools, tools types with its properties, methods and events.	2 Understanding 3 Applying,
CLO2	To understand and implement Web Application Development environment software.	3 Applying, 6 Creating
CLO3	To have fundamental knowledge of SQL server and database concepts	2 Understanding,
CLO4	To design and develop websites using advanced web technology tools.	3 Applying, 6 Creating
CLO5	To understand and implement various types of web pages.	3 Applying,
CLO6	To understand the concept of Project development at server level.	6 Creating

**Mapping of CLO with Pos & PSOs**

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CLO1	L	H		H	H	M		M	L	M	H	H	L	
CLO2			M	H	M	L		H		H	M			M
CLO3		M	L	H	H	M	L	L		L	H	M		H
CLO4	L	L		M	M	L	M		M		M	L		M
CLO5		L	M		H		M		L		H	L	M	H
CLO6	L	M	M	H	M	M	H	H	H	H	M	M	H	H

**H: High, M:Medium, L:Low**