

Programme	B.Sc. (CA & IT) Honours				Branch	Computer Applications			
Semester	V				Version	1.0.0.0			
Effective from Academic Year			2026-27		Effective for the batch Admitted in			June 2024	
Subject code	U15A1WT		Subject Name		WEB TECHNOLOGY				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CCE	SEE	Total
	L	TU	P	TW					
Credit	2	-	2	-	4	Theory	50	50	100
Hours	2	-	4	-	6				

Objective:

To provide awareness and skill of web development through standard concept.

Pre-requisites:

One should have knowledge of OOPs Concepts, .Net Framework, C#, ADO.Net

Learning Outcome:

Name of CO	Description
CO1	Understand the fundamental concepts, architecture, and lifecycle of ASP.NET applications and pages.
CO2	Develop dynamic web pages using various ASP.NET Server Controls and Validation Controls.
CO3	Design responsive and reusable web pages using Master Pages, Themes, Stylesheets, and AJAX controls.
CO4	Perform database operations and display data interactively using ADO.NET and ASP.NET Data Controls.
CO5	Apply state management techniques to preserve data across pages in ASP.NET web applications.

Mapping of CO and PO:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	1	1	1	1	1	1	2	2	2
CO2	3	3	3	2	2	1	1	1	2	1	1	1
CO3	3	2	3	1	2	1	1	2	2	1	2	1
CO4	3	3	3	2	3	1	1	2	2	1	1	1
CO5	2	2	2	1	2	2	2	1	1	1	1	3

Content:

Unit	Content	Hrs.
1	ASP.Net Fundamentals: Introduction to ASP.Net, Advantages of ASP.Net, ASP.Net application life cycle, ASP.Net Page life cycle, ASP.Net Application Structure – Resources, Resource Management, Code Management, Page Directives, Page class.	06
2	Controls ASP.Net Server Controls: Difference between Server Controls and HTML Controls, Standard Controls: Label, Button, Textbox, Link Button, Hyperlink, Dropdown List, Radio Button, RadioButtonList, Calendar, AdRotator, File Upload, Multiview. Validation Controls: RequireFieldValidator, Range Validator, Regular Expression Validatory, Compare Validator, Custom Validator.	06
3	ASP.Net Page Designing: Perspectives and Concepts Master Page, Skin File, Theme, Stylesheet, Introduction to	06

	AJAX, Basic Controls of AJAX	
4	Database Manipulation Data Controls: Grid View, Details View, Form View, Repeater, Chart, Database Manipulations using ADO.Net, Advanced Grid View Manipulations, Using Stored Procedures, Reporting Facility.	06
5	State Management Techniques: Introduction to State Management, State management Techniques - Session, Application, Cookie.	06
Practical Content:		
List of practical specified by subject teacher based on above mentioned topics		
Reference Books:		
1	Beginning ASP.NET 3.5 in C# 2008, 2nd edition by Matthew MacDonald, Apress	
2	Pro ASP.NET 3.5 in C# 2008, 2nd edition by Matthew MacDonald and Mario Szpuszta, Apress	
3	ASP .Net 3.5. Unleashed, SAMS, Pearson Education	
Web Reference:		
1	www.c-sharpcorner.com/technologies/asp-net	
2	www.tutorialsteacher.com/aspnet	
MOOC/Certificate Course:		
1	www.youtube.com/playlist?list=PLWPirh4EWFpGdA3VPS9umbvP6YGT3hUU9	
2	www.coursera.org/learn/dot-net-foundation	
Question Paper Scheme:		
	End Semester Examination Duration: (2 Hours Theory Examination)	
	Note for Examiner: - Q-1 Any Five out of Seven (25 Marks) Q-2 Any Two out of Three (06 Marks) Q-3 Mandatory question (05 Marks) Q-4 Any Two out of Three (08 Marks) Q-5 Any Two out of Three (06 Marks)	
	*The question paper must comprehensively address all Course Outcomes (COs), align with Bloom's Taxonomy levels, and ensure complete syllabus coverage	