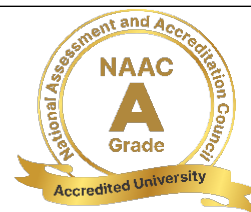




Ganpat University
॥ विद्यया समाजोत्कर्षः ॥

Faculty of
Computer Applications



FACULTY OF COMPUTER APPLICATIONS

Programme	BCA Honors	Branch	Bachelor of Computer Applications
Semester	V	Version	1.0.0.0
Effective from Academic Year	2026-2027	Effective for the batch Admitted in	June 2024
Subject Code	U35A2AWT	Subject Name	ADVANCED WEB TECHNOLOGY

Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2		2	-	2	Theory	50	50	100
Hours	2		4	-	6	Practical	-	-	-

Objective:

By the completion of this course, students will be able to create a Website for different purpose.

Pre-requisites:

Students should have a good understanding of other web technologies such as HTML, CSS, AJAX, JavaScript, JQuery., C# , ASP.NET Core MVC,Razor View Engines etc

Course Outcomes :

Name of CO	Description
CO1	Understand the fundamentals concept of ASP.Net Page, Page life cycle, IIS & Webconfig
CO2	Implement Master page, themes and CSS Session & Cookies, Menu, SiteMapPath, Adrotator, File Upload and in Asp.net.
CO3	Implement Ado.net and Crystal Report in Asp.net.
CO4	Perform Asp.net core – View, Controller and Model in Asp.net.
CO5	Introduction Razor View Engines, Implicit Razor expressions, Explicit Razor expressions, . URL Routing.

Mapping of CO and PO

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

CO4	3	3	2	2	2	2	2	2	2	1	2	1
CO5	2	2	3	2	3	1	2	2	2	1	2	1

Content:

Unit		Hrs
1	Introduction to Asp.net Overview Asp.Net Concept, Features, Anatomy of ASP.Net Page, Page life cycle, Inline Code and Code-Behind, Page.IsPostBack Property file, IIS & Webconfig. Overview of ASP.Net Web Control: Web Forms, Label, Textbox, Button, Dropdown List, Listbox, HyperLink, Validation Controls	6
2	Master page, Theme & CSS, Advance ASP.Net MasterPages: Understanding, Creation, Configuration, Displaying, Modifying content and Displaying, Creating and Applying themes and CSS, State Management: Session & Cookies Navigation Control: Menu, SiteMapPath Special Control: Adrotator, File Upload	6
3	ADO.Net and Crystal Report: Overview: ADO.Net Architecture, Connection, Command, Dataset, DataReader, Displaying, Editing, Inserting, Deleting Data with Grid View, Displaying data in Repeater Control, Form view & Detail View Control, Crystal Report: Creation of Simple Report using Crystal Report	6
4	Introduction ASP.NET Core MVC: Introduction to ASP.NET Core MVC, Understand MVC Pattern. The View: The Purpose of views, ViewData, Viewbag and TempData, Strongly typed view, Adding View, Working with HTML and Tag Helpers, Layout. Controller: The Purpose of Controller, Creating New Controllers, Write Action Methods, Parameters in Controller Actions, types of Action Results & Return Type. Model: Understanding Model, Creating the Model, Model Binding.	6
5	The Razor View Engines: Introduction Razor View Engines, Razor Syntax: Implicit Razor expressions, Explicit Razor expressions, Expression encoding, Razor code blocks, Implicit transitions, Explicit delimited transition, Explicit line transition, Control structures: Conditionals: if, else if, and switch; Looping: for, foreach, while, and do while; Comments, functions. URL Routing: Introducing URL Patterns, Defining Default Values, Using Static URL Segments, Attribute Routes	6

Practical Content:

List of programs specified by the subject teacher based on above mentioned topics

Text Books:

- 1 Beginning Asp.net 3.5 in C# and VB Spaanjars, Wrox Publications.

Reference Books:

- 1 Professional Asp.net 3.5 in C and VB, Evjen, Hanselman, Rader, Wrox Publication
- 2 Beginning Asp.net 3.5 in C# 2008, Matthew MacDonald, Apress Publication
- 3 ASP.NET Core 2.0 MVC and Razor Pages for Beginners Atlantic Publishers and Distributors

	2017
Web References / MOOC / Certification Course	
1	https://www.coursera.org/learn/c-sharp-for-dot-net
2	https://www.codecademy.com/learn/learn-asp-net
3	https://www.tutorialspoint.com
4	https://www.edx.org/learn/aspnet
Question Paper Scheme:	
	<p>End Semester Examination Duration: (2 Hours Theory Examination)</p> <p>Note for Examiner: -</p> <p>Q-1 Any Five out of Seven (25 Marks)</p> <p>Q-2 Any Two out of Three (06 Marks)</p> <p>Q-3 Mandatory question (05 Marks)</p> <p>Q-4 Any Two out of Three (08 Marks)</p> <p>Q-5 Any Two out of Three (06 Marks)</p> <p><i>The question paper must comprehensively address all Course Outcomes (COs), align Taxonomy levels, and ensure complete syllabus coverage.</i></p>