

**Syllabus**  
**Of**  
**Skill based Value Added Course**  
**On**  
**(SOFTWARE DEVELOPMENT USING**  
**ASP.NET)**

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**Govt. V.Y.T. PG Autonomous College, Durg (C.G.)**  
**Department of Computer Science**



(Session 2022-23)

**Skill based Value Added Course**  
**On**  
**(SOFTWARE DEVELOPMENT USING ASP.NET)**

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**Course Name: SOFTWARE DEVELOPMENT USING ASP.NET**

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## Introduction

### Value added course:-

It is observed that the relevant areas of software development for computer science students are not covered under a university curriculum. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Our college offers a wide variety of short term and also long term certificate courses which are conducted after class hours or during semester breaks.

These courses are conducted by professionals and industry experts and help students stand apart from the rest in the job market by adding further value to their careers.

A programmer may need to perform a number of different roles in any software industry. While the job description varies from workplace to workplace, no two days in a row are exactly the same for these business dynamos. Each software company require different technology to develop.

Each task, from answering the phone to checking in with co-workers, requires a different set of skills, meaning you're always activating a different part of your own knowledge and experience and this entails a working knowledge of web based software development.

The proposed course aims to empower the students towards utilising web based software development, thus making them more receptive to and prepared for 21st century job market requirements.

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## Course Objectives:

- To develop a strong foundation in web based software development.
  - A holistic development of academic excellence to contribute effectively to the understanding of web based software development in Software Company.
  - To equip the students with the basic skills in identifying and labeling different Asp.Net tools.
  - To impart quality education in the field of computer science enabling our students to confidently face the job market.
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- Explain how to create dynamic Web pages by using ASP.NET.
  - Configure an ASP.NET application by using .config files
  - Create a user interface on an ASP.NET page by using standard Web server controls.
  - Create a user control and a custom server control and add them to an ASP.NET page.
  - Able to create your own Website, enhanced by using Master pages and Themes.
  - Find and eliminate bugs in an ASP.NET application.
  - Display dynamic data from a data source by using ADO.Net and data binding.
  - Maintaining State management throughout the Application.
  - Use Web service to enhance a Web application.
  - Deploy an ASP.NET application to a production Web server.

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## Syllabus

**Module-I** Web Programming Introduction: Understanding role of Web Server and Web Browser, Brief about HTTP Protocol. HTTP Request structure. Form Tag and comparison between Get and Post methods. HTTP Response Structure

**HTML and JavaScript:** Understanding HTML Form Tag and elements within it. Javascript using Sample Programs.

Introduction to C#, Language Basics, Operators in C#, Control Statements.

**Module - II ASP.NET Introduction & Controls:** ASP.NET Introduction First ASP.NET Application. Auto Postback Property. Event Handler Parameters. Dynamically initializing Controls, IsPostBack property of Page class ListControls, Comparison between HtmlControls and WebControls, Control Properties and Methods, FileUpload Control

**Working with User Control:** Overview of User Controls, Creating a User Control, Adding Properties to User Control, Adding Events to User Control, Using User Control in Web Form, Rendering Clients Scripts Using Page.ClientScript methods

**Module – III ASP.NET Architecture:** What is AppDomain? Life Cycle of ASP.NET Page, How Control Manages its State , What is EnableViewState , How Control raises events, Event handling in Web Forms, Writing Custom Classes in WebApplication

**Module – IV CSS & Themes:** Work with CSS, Use Themes to Customize a Site, Name Skins within a Theme, Do server-side Styles using Themes, Add contents of a Theme and Skin, Apply themes and Profiles **Redirecting User to Another Page:** Redirecting Options, Response.Redirect ,Server.Transfer, Cross Page Postback, Determine how the pages was invoked, Passing values between pages

**Master Pages:** Introduction to MasterPage , ContentPlaceHolder and Content tags, Accessing controls of MasterPage in ContentPage, URL's in MasterPages, UniqueID and ClientID

**Module- V Working with Webpage and Database.**

Introduction to ASP.NET Web Application, Advantages of IIS Applications, Creating web application in IIS.

Database concept, Ado.net Architecture, .Net Data Provider( Connection class: SqlConnection, Command class : SqlCommand class, DataAdapter class, DataReader class), Dataset Component, Data Bound Controls.

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## Duration of the course: Total 30 hours

(15 hours teaching and 15 hours practical)

<b>Scheme of Examinations :- Number of Questions</b>	<b>20 questions (MCQs) of each module from theory portion.</b>
Exam Mode	Online mode only
Type of questions	Objective type questions with 4 options and 1 correct answer
Duration of Exam	The exam duration is 60 minutes (1 hour)
Subjects	Questions are asked from syllabus.
Language	The question paper is asked in 1 languages English only.
Marking Scheme	2 Marks are awarded for each correct answer.
Negative Marking	No Negative Marking.
Theory Exam	5 Questions (MCQs) from each module
Theory Maximum Marks	50
Theory Minimum passing Marks	20
Practical Exam	2 Questions (MCQs) from each module
Practical Maximum Marks	50

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## **Practical: (15 hrs)**

Practical based on Module 1, Module 2, Module 3 and Module 4, Module 5.

## **References:**

- The Complete Reference of ASP.Net, TMH Publications.
- Debugging ASP.NET (New Riders) - Jonathon Goodyear, Brian Peek, Brad Fox
- Designing Microsoft ASP.NET Applications (Microsoft Press) - Jonathon Goodyear, Brian Peek, Brad Fox
- Microsoft ASP.NET Step by Step (Microsoft Press) - G. Andrew Duthrie
- Deploying and Managing Microsoft .NET Web Farms (Sams) - Barry Bloom
- Professional ASP.NET MVC 3 (Wrox) - Jon Galloway, Phil Haack, Brad Wilson, K. Scott Allen
- Beginning ASP.NET 4.5 in C# - Matthew MacDonald

## **Learning outcome with assessment criteria:**

**The Value Added Education Courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of students. The main objectives of the program are:**

- To provide students an understanding of the expectations of industry.
- To improve employability skills of all the students of computer science.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students to develop Software Development skills.



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**Name of Course Co-ordinator:- Mr. Dileep Kumar Sahu**

S. N	Category	Name of Nominated Members	Signature
1.	Chairperson	Mr. Durgesh Kumar Kotangle	
2.	Members	1. Prof. Dileep Kumar Sahu 2. Mrs. Latika Tamrakar	
3.	Subject specialist	<b>Mrs. Neha Tiriha</b> (Govt. J.Y. C.G. College, Durg)	
4.	VC Nominated member	<b>Mr. L.K. Gavel</b> (Govt. College Balod C.G.)	
5.	Corporate/ Industrial area Representative	Shri Rajkumar (Ravi Solutions Durg)	
6.	Ex Meritorious Student PG	Balram Dewangan (Govt. V.Y.T. PG Autonomous College, Durg C.G.)	
7.	Subject expert from other Department	Dr. Padmavati (Govt. V.Y.T.PG. Autonomous College Durg C.G.)	



