



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc.), 5th Semester
Branch: Information Technology
Subject Name: Web Development using ASP.NET
Subject Code: 1150503

Type of Course: Core.

Prerequisites: Basic of HTML.

Rationale: The .NET has become a platform of choice for the development of web-based data driven pages among webpage developer community due to its potential and strong features available to develop virtually all kind of dynamic web sites.

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
3	0	0	3	50	0	0	0	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C Credit; ESE- End Semester Examination; PA- Progressive Assessment

Course Details:

Sr. No.	Content	Total Hrs.	Module % Weightage
1	Building of the ASP.NET Framework ASP.NET and .Net Framework: Understanding the framework class library, Understanding the common Language Runtime Understanding ASP.NET Page: Using code-behind pages, Handling page events, Using the post.IsPostBack Property.	4	10 %
2	Using the standard Controls Using the label Control, Literal Control, textbox control, checkbox Control, RedioButton Control, Button control, LinkButton control, ImageButton control, Working with the DropDownList Control, RadioButtonList Control, ListBox Control, CheckBoxLayout Control, BulletList Control, Performing Cross-Page Posts, Handling the command events, using the image control, using the panel control, Using the Hyperlink Control.	4	20 %
3	Using the validation Controls Using the RequiredFieldValidator Control, Using the RageValidator Control, Using the RegularExpressionValidator Control, Using the CustomValidator Control, Using the ValidtionSummary Control, Creating Costom Validaton Controls, Creating a LengthValidator Control, Creating an AjaxValidator Control.	6	15 %
4	Designing Website with Master Pages Create Master Pages, Creating Default Content, Nesting Master Pages , Using Data Source Control, Using ASP.NET Parameters with DataSource Control.	4	10 %



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5	Using the SqlDataSource Control Connecting to Microsoft SQL Server, String in the web configuration file, Executing Store Procedures, Using the QueryStringParameter Object, Using the SessionParameter Object, Adding ADO.NET Parameters, Executing Insert, Update, And delete Commands, Executing Select Commands, Caching database Data with the SqlDataSource Control.	10	20 %
6	Using the GridView and DetailsView FormView Control GridViewControl Fundamentals, Displaying Data, Selecting Data, Using Data Key, Sorting Data, Paging Through Data, Editing Data , Using BoundField, Using CommandFields, Using the Details Control, Displaying Data with the DetailsView Control, Using Fields with the Details Control, Paging Through Data with the DetailsView Control, Updating data with the DetailsView Control, Deleting data with the DetailsView Control, Working data with the DetailsView Event, Displaying data with the Repeater Control, Using Templates with the Repeater Control.	14	25 %
Total		42	100

Suggested Specification Table with Marks (Theory): (For B.VOC. Only)

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	10	5	15	5

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate and above Levels (Bloom's Taxonomy)

Reference Books:

1. ASP.NET 3.5 Unleashed
2. ASP.NET: The Complete Reference Books
3. Programming in Visual Basic. NET
4. Visual Basic .net Comprehensive Concepts and Techniques

List of Software/Learning Websites

1. Software: Microsoft Visual Studio latest express edition
2. <http://www.homeandlearn.co.uk/NET/vbNet.html>
3. <http://msdn.microsoft.com/en-us/beginner/default.aspx>
4. Videos : <http://www.youtube.com/>
5. <http://www.learnvisualstudio.net>



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Course Outcomes:

Sr.No.	COStatement	%Weightage
CO-1	Createsmall programsusingbasicASP.Netconcepts controls.	10
CO-2	Apply In-Built validation using security techniques.	15
CO-3	Design and develop a Web site using web controls for presenting web-based content.	10
CO-4	DebugtheProgrammerbyapplyingconceptsandtechniquesof ASP.Net.	20
CO-5	Create dynamic Website/ Web based Applications, using ASP.Net, SQL Serverdatabase	20
CO-6	Higher level to data binding using bound controls	25

List of Open-Source Software/learning website:

Students must refer to following sites to enhance their learning ability.

Software :(1). Visual Studio 2017 or higher community