GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc), 1st Semester
Branch: Software Development
Subject Name: Web Designing
Subject Code: 21110202

With effective from academic year 2021-22

Teaching and Examination Scheme:

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

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination;
PA- Progressive Assessment

Content:

Sr. No.	Practical / Hands on Exercise	Hrs.
1.	**Unit 1: Fundamentals of Web Designing** Introduction to Internet and WWW, HTTP protocol with Request and Response, Web browser and Web servers Concepts of effective web design, Web design issues including Browser, Bandwidth and Cache, Display resolution, Look and Feel of the Website, Page Layout and linking, User centric design, Sitemap, Planning and publishing website, Designing effective navigation	05
2.	**Unit 2: Hypertext Markup Language** Basic of HTML, HTML core Elements, Attributes, Heading, Paragraph, Style, Text Formatting, Quotation and Citation Elements, Comments, Colors, Links, Images, Tables, Lists, Block and Inline Elements, Class Attribute, id Attribute, Iframes, File Paths, The head element, Layout Elements and Techniques, Responsive Web Design, Computer Code Elements, Semantic Elements, Entities, Symbols, Using Emojis, HTML Encoding, HTML URL, HTML Forms Introduction to XHTML, Diff. between HTML & XHTML, Meta tags, Character entities, Browser architecture and Web site structure. Overview and features of HTML5	11
3.	**Unit 3: Cascading Style Sheets** Introduction to CSS, Syntax, Selectors, Types of CSS, Backgrounds, Borders, Margins, Paddings, Height/Width, Box Model, Outline, Text, Fonts, Icons, Links, Lists, Tables Layout Property – Display & inline block, Width & Max, Position, Overflow, float & clear, horizontal & vertical alignment CSS combinators, Psuedo class & Elements, Opacity, Navigation Bar, Dropdowns, Image Gallery & Image Sprites, Attribute selector, Forms, Counters, Website layout, Units	11
4.	**Unit 4: JavaScript** Introduction to client side Scripting, JS variables, different placing of <script> tag in code, JS Output, Statements, syntax, Comments, variables, let & const, operators, assignments, data-types, functions, objects, events, string & its methods, numbers and its methods, array, Sorting and searching, Date Object, Math Object, Random, conditions, Comparison and Conditions, switch, loops and repetition, Type -	11

GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Bachelor of Vocation (B.Voc), 1st Semester
Branch: Software Development
Subject Name: Web Designing
Subject Code: 21110202

With effective from academic year 2021-22

	Conversion, Regular Expression, Errors, Scope, this keyword, JSON, JS reserved word, Pop up boxes JS Objects, JS Functions, JS Classes, JS Async, JS HTML DOM, JS Browser DOM, JS Web APIs, JS AJAX, JS JSON, JS vs. jQuery	
5.	**Unit 5: Web Hosting Fundamentals** What is Domain? Introduction to DNS, how to register a Domain? What is web hosting? How to get a web hosting? Host your website on web Server. FTP -FTP Introduction, FTP Commands Viewing Files and Directories, FTP Commands Transfer and Rename files, FTP with WS FTP/ CuteFTP, Filezilla on Windows.	04
	Total	42

Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	25	25	10	5

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

Reference Books:

1. Developing Web Applications, Ralph Moseley and M. T. Savaliya, Wiley-India
2. Web Technologies, Black Book, dreamtech Press
3. HTML 5, Black Book, dreamtech Press
4. Web Design, Joel Sklar, Cengage Learning

Course Outcomes:

CO1: Describe the fundamentals of web-designing concepts with WWW including browser and HTTP protocol.
CO2: List the various HTML tags and use them to develop the user-friendly web pages.
CO3: Define the CSS with its types and use them to provide the styles to the web pages at various levels.
CO4: Develop the modern/dynamic web pages using the HTML, CSS & JavaScript features with different layouts as per need of applications.