DCA-2-02T: Web Designing & Development

Total Marks: 100 External Marks: 70 Internal Marks: 30 Credits: 6 Pass Percentage: 40%

Course: Web Designing & Development			
Course Code: DCA-2-02T			
Course Outcomes (COs)			
After the completion of this course, the students will be able to:			
CO1	Understand characteristics of a website.		
CO2	Understand web Programming Technologies: Programming Languages, Frameworks,		
	Libraries, Databases		
CO3	Learn about design principles such as layout, typography, color theory, and user		
	experience (UX) design, and how these principles apply to web design.		
CO4	Learn how to use graphics and multimedia elements, such as images, videos, and		
	animations, to enhance the visual appeal and interactivity of websites.		
CO5	Gain practical experience with web development tools and frameworks, such as		
	Bootstrap, jQuery, and AngularJS, to streamline the development process and enhance		
	website functionality.		

Detailed Contents:

Module	Module Name	Module Contents
Module 1	Introduction to Web	Basic Concepts of WWW, Web page, Hyper
	Programming	Text Markup Language (HTML), Hypertext and
		Hypermedia, Hypertext Transfer Protocol,
		Server, Web Browsers, Uniform Resource
		Locator (URL), Domain Name, IP Address or
		Number, Characteristics of a Website.
Module II	Web Programming	Client-Side Scripting, Server-Side Scripting,
		Static and Dynamic Websites, Frontend and
		Backend Development, Web Application
		Process Model, Web Programming
		Technologies: Programming Languages,
		Frameworks, Libraries, Databases
Module III	HTML	Introduction, HTML Tags, HTML DOM,
		developing a Web Page, Commonly Used
		HTML Tags: Header and Footer, Text
		Formatting, Paragraphs, Text Style, Lists and
		Bullets, Creating Tables in HTML, Components
		of table, Border Attribute, Width and Height
		Attribute, Align Attribute, Cell Padding and Cell
		Spacing Attributes, Column Span and Row Span
		Attributes, Inserting Images in HTML,
		Hyperlinks, Hyperlink of an email, Hyperlink to

		another browser page, HTML Multimedia, HTML Plugins HTML Forms
Module IV	JavaScript-I	Introduction, JavaScript Syntax, JavaScript Program, JavaScript Variables, JavaScript Operators, JavaScript Data Types, JavaScript Functions, JavaScript Variable Scope: Global Scope, Local Scope, JavaScript Strings: String Length, Special Characters, Breaking Long Code lines, JavaScript Arrays: Converting Array to
Module V	JavaScript - II	String, Popping and Pushing Introduction, JavaScript Switch, JavaScript Loops, JavaScript Events, JavaScript Forms, JavaScript - III: Introduction, DOM Introduction, DOM Methods, DOM Document, DOM Events, JavaScript Window Screen, JavaScript Window Location, JavaScript Window Navigator, JavaScript Popup Boxes
Module VI	AngularJS	Introduction, AngularJS Development Environment, Expressions in AngularJS, AngularJS Directives, Data Binding, AngularJS Model Modes, One Way Binding, Two Way Binding, AngularJS Controller, AngularJS Scope, AngularJS Filters, AngularJS Forms

Books

1. Steven A. Gabarro, "Web Application Design and Implementation", Wiley, 2006

- 2. Thomas A. Powell, "HTML: The Complete Refence", McGraw-Hill
- 3. Pankaj Sharma, "Web Technology", Sk Kataria & Sons Bangalore 2011.
- 4. Mike Mcgrath, "Java Script", Dream Tech Press 2006, 1st Ed.
- 5. Achyut S Godbole & Atul Kahate, "Web Technologies", 2002, 2nd Ed.
- 6. Laura Lemay, Rafe Colburn, Jennifer Kyrnin, "Mastering HTML, CSS & Javascript Web Publishing", 2016.
- 7. DT Editorial Services (Author), "HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery)", Paperback 2016, 2nd Ed.
- 8. C. Xavier, "World Wide Web Design with HTML", TMH Publishers, 2001.
- 9. Wendy Willard, "A Beginners Guide HTML", Tata McGraw Hill, 2009, 4th Ed.