

INSTITUTE	DIPLOMA STUDIES
PROGRAM	DIPLOMA ENGINEERING (COMPUTER ENGINEERING)
SEMESTER	1
COURSE TITLE	BASICS OF WEB DESIGNING
COURSE CODE	09CE2102
COURSE CREDITS	5

Objective:

- 1 The main objective of this subject is to introduce the students with Internet and web. This subject covers the basics WWW, technologies like HTML and CSS. These technologies are equally used for developing web based educational and business applications. This course will act as a foundation and help student for developing dynamic web pages.

Course Outcomes: After completion of this course, student will be able to:

- 1 Understand the concepts of Internet, WWW and browser
- 2 Acquire the knowledge of different protocols (HTTP, FTP).
- 3 Acquire the knowledge of various HTML tags and use them to develop web pages.
- 4 Develop web pages using CSS styles, internal and/or external style sheets.
- 5 Design the modern web pages using the HTML and CSS features with different layouts as per need of applications.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	2	50	30	20	25	25

Contents : Unit	Topics	Contact Hours
1	INTERNET AND WWW Introduction to Network and Internet, Working of internet, WWW, Website, Web Pages, Internet tools, Web server, Domain name, IP address and its Versions (concepts only), Internet Protocols – TCP/IP, FTP , HTTP	8
2	HTML FUNDAMENTALS Introduction to HTML, What is HTML, Different versions of HTML, HTML Syntax, Structure of HTML Documents, HTML5 Structure, HTML Elements and Attributes, HTML Block and Inline Elements, Heading, Paragraphs, PRE Tag, FONT Tag, META Tag, , Text Formatting Tags, Special Characters, Working with Images	12

Contents : Unit	Topics	Contact Hours
3	HTML – LIST, TABLE AND FRAMES Hyperlinks (Anchor tag), Lists, Unordered Lists - Ordered Lists , Definition Lists, Tables Tags- Colspan and Rowspan, Thead, Tbody, Tfoot, Frames, Frameset , FRAME Tag, Frame inside other frames, NOFRAMES Tag	10
4	HTML FORMS Forms, FORM and INPUT Tag, Textbox, Radio Button, Checkbox, SELECT Tag, Pull Down Lists, Hidden, Submit and Reset, Some Special Tags	8
5	CSS CSS Introduction, CSS box model, Features, Basics of Style Sheet, CSS selectors, Working with CSS files, Syntax, Borders, Outlines, Backgrounds, Fonts, Text effects, Colors, Positions Types of Style Sheets- Inline Styles, Embedded Styles, External style, Linked style	8
6	CSS – FORMATTING TEXT, BACKGROUND AND ANIMATION CSS Gradients, Text effect, Web fonts, Shadow Effects, Transformations, Animations, Positioning systems of CSS	6
Total Hours		52

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	<p>Practical List</p> <p>Understanding basic tools for creating HTML pages along with structure., Create HTML page that contains single paragraph by using basic HTML tags., Create HTML page that contains your basic details for eg, 1) Name 2) Enrollment 3) Branch 4) College name 5) Address., Create HTML page that includes image and its description, Create HTML page with different background color also include image and a paragraph in it., Create HTML page to include hyperlinks (3 links). Also, create three supporting HTML files to which user will be redirected., Create a web page that includes four links which redirects to your subject syllabus webpage., Create a web page, which include different type of lists using HTML List tags., Create a web page, which includes nested lists. Also, show the use of type attribute., Create a web page which includes definitions of any 10 technical words using definition list., Create a Web page to demonstrate the use of frame, frameset and noframes tags., Create a table in a web page as given below – , Create a timetable of class in webpage using table tags., Create a menu of a restaurant / hotel using list and tables on webpage., Create a basic form by using any two inputs and buttons (login form)., Create a Registration form with different inputs, text box and buttons, Create a survey form with different inputs, textbox, dropdown menu and multiple select, Create a web page which includes audio and video tags of HTML., Create a web page and embed a video of YouTube in it., Create a web page with two different CSS, which is Internal and inline, Create a web page using CSS, use google fonts in paragraphs and also use external style sheet to style the content on web page., Create a webpages using a single External CSS. Also use background, text, border properties., Develop a web page using CSS to create a timetable for the class using different border style., Develop a webpage of an Image gallery using CSS (Height and width of the images should be equal and margin should be set properly.) 25., Develop a basic webpage to understand the concept of gradient, text effect and animation using CSS., Develop a webpage with a navigation bar (horizontal or vertical) using CSS., Design a single page website for Marwadi University containing a description of all the courses offered. It should also contain general information about the college such as its campus and facilities provided by it., Design a landing page. (any product)</p>	32
Total Hours		32

Textbook :

- 1 HTML & CSS: The Complete Reference, Thomas Powell , Mc GrawHill, .

References:

- 1 Thomas Powell ,”HTML & CSS: The Complete Reference”, Mc GrawHill, Fifth Edition

References:

- 2 Terry Felke-Morris, “Web Development and Design Foundations with HTML5”, Person, 8th edition.
- 3 Douglas E.Comer, “The Internet”, Prentice Hall

Suggested Theory Distribution:

The suggested theory distribution as per Bloom’s taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery and evaluation					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking
35.00	35.00	30.00	0.00	0.00	0.00

Instructional Method:

- 1 a. The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, may also use any of tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.
- 2 b. The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.
- 3 c. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.
- 4 d. Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory

Supplementary Resources:

- 1 www.w3schools.com
- 2 www.devdocs.io
- 3 developer.mozilla.org/en-US/docs/Learn