

INSTITUTE	DIPLOMA STUDIES
PROGRAM	DIPLOMA ENGINEERING (COMPUTER ENGINEERING)
SEMESTER	1
COURSE TITLE	BASICS OF WEB DESIGNING
COURSE CODE	09CE3102
COURSE CREDITS	3

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 HTML5 and CSS3. 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 static web pages.

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

- 1 Apply the concepts of Internet, WWW, and web browsers to demonstrate web connectivity and navigation functionality.
- 2 Use appropriate network protocols such as HTTP, FTP, and UDP in web-based tasks or configurations.
- 3 Develop structured web pages by applying HTML5 tags to create content-rich and semantically correct layouts.
- 4 Implement CSS3 styles using internal, external, and inline style sheets to enhance the appearance and layout of web pages.
- 5 Design and construct modern static web pages by integrating HTML5 and CSS3 features for varied layout and design requirements.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
2	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 and Web Pages, Internet tools, Web server, Domain name, IP address and its Versions (concepts only, Internet Protocols – TCP/IP, FTP, HTTP, HTTPS, UDP	4

Contents : Unit	Topics	Contact Hours
2	HTML5 FUNDAMENTALS Introduction to HTML and its versions, Structure of HTML5 Documents, HTML5 Elements and Attributes, HTML5 Block and Inline Elements, Heading, Paragraphs, Tags - PRE-Tag, FONT Tag, META Tag, Text Formatting Tags, Working with Images, Lists - Unordered Lists - Ordered Lists – Definition Lists	6
3	Hyperlink, Table and Forms of HTML5 Hyperlinks-Anchor tag & it's attribute, Tables Tags- Colspan and Rowspan, Thead, Tbody, Tfoot, Forms - FORM and INPUT Tag, Textbox, Radio Button, Checkbox, SELECT Tag and Pull-Down Lists - Hidden, Submit and Reset, Some Special Tags	6
4	CSS3 CSS Introduction and its version, CSS box model and Features, Basics of Style Sheet and CSS selectors, Working with CSS files, Syntax, Borders, Outlines, Backgrounds, Fonts, Text effects, Colors, Positions, Types of Style Sheets- Inline Styles, Embedded Styles, External or Linked Styles	7
5	Advance CSS3 CSS Gradients, Text effect, Web fonts, Shadow Effects, CSS Tooltips, CSS Transformations- 2D/3D, Animations, Positioning systems of CSS	5
Total Hours		28

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	Practical-1 Understanding basic tools for creating HTML pages along with structure	1
2	Practical-2 Create HTML page that contains basic HTML tags.	1
3	Practical-3 Create HTML page that contains your basic details for eg, 1) Name 2) Enrollment 3) Branch 4) College name 5) Address	1
4	Practical-4 Create HTML page that includes image and its description with different background color also include a paragraph in it.	2
5	Practical-5 Create a web page, which include different type of lists using HTML List tags(includes nested list and types of attributes).	2
6	Practical-6 Create HTML page to include hyperlinks (3-4) which redirects to your subject syllabus webpage.	1
7	Practical-7 Create a web page which includes definitions of any 10 technical words using definition list	1

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
8	Practical-8 Create a table in a web page	1
9	Practical-9 Create a timetable of class in webpage using table tags.	1
10	Practical-10 Create a menu of a restaurant / hotel using list and tables on webpage	2
11	Practical-11 Create a basic form by using any two inputs and buttons (login form).	1
12	Practical-12 Create a registration form with different inputs, text box and buttons.	1
13	Practical-13 Create a survey form with different inputs, textbox, dropdown menu and multiple select option.	1
14	Practical-14 Create a web page which includes audio and embed a video of YouTube tags of HTML.	1
15	Practical-15 Create a web page with different CSS, which is Internal, Inline and External.	1
16	Practical-16 Create a web page using CSS, use google fonts in paragraphs and also use external style sheet to style the content on web page.	2
17	Practical-17 Develop a web page using CSS to create a timetable for the class using different background, text, border style.	2
18	Practical-18 Develop a webpage of an Image gallery using CSS (Height and width of the images should be equal and margin should be set properly.)	2
19	Practical-19 Develop a basic webpage to understand the concept of gradient, text effect and animation using CSS.	1
20	Practical-20 Develop a webpage with a navigation bar (horizontal or vertical) using CSS.	1
21	Practical-21 Design a 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.	3
Total Hours		29

Textbook :

- 1 "HTML & CSS: The Complete Reference", 5th Edition, Thomas Powell, McGraw-Hill, 2010

References:

- 1 "Web Development and Design Foundations with HTML5", 8th edition, "Web Development and Design Foundations with HTML5", 8th edition, Terry Felke-Morris, Pearson, 2017
- 2 "The Internet", "The Internet", Douglas E.Comer, Prentice Hall, 2007
- 3 "HTML 5 Black Book, 2nd Edition", "HTML 5 Black Book, 2nd Edition", DT Editorial Services, Dreamtech Press, 2016

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 / Creative
		35.00	35.00	30.00	

Instructional Method:

- 1 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 The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.
- 3 Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.
- 4 Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory

Supplementary Resources:

- 1 www.w3schools.com
- 2 www.tutorialspoints.com
- 3 www.csstutorial.net
- 4 <https://www.w3schools.com/css/default.asp>
- 5 https://edu.google.com/intl/ALL_in/teacherenter/products/forms/?modal_active=none
- 6 <https://support.microsoft.com/en-us/training>
- 7 <https://www.udemy.com>