

CA 225 Programming the Internet

Credits and Hours:

Teaching Scheme	Theory	Practical	Total	Credit
Hours/week	-	2	2	2
Marks	-	100	100	

A. Objective: The objective of this course is to provide working knowledge of design effective and attractive web pages using HTML5 and CSS.

Pre-requisite: Basic knowledge of HTML

Methodology & Pedagogy: During the sessions, topics related to design the pages of a website will be covered with suitable examples and students will be required to design and develop entire web sites using HTML5 and CSS.

Learning Outcome: Upon Successful completion of the course, Students will learn the concepts of CSS from basic to advanced. Students will be able to design attractive web pages using HTML5 and CSS

B. Outline of the Course:

Week No.	Content
1	HTML5: Introduction, New Elements, Semantics, Media: Audio and Video
2-3	Forms: Input Types, Form Elements, Form Attributes, Graphics: Canvas
4	Introduction to Cascading Style Sheet (CSS), CSS layout, CSS essentials,
5-6	CSS selectors, CSS Box Model and Wrapper class
7	CSS Backgrounds and CSS Borders
8	CSS Text and Fonts and CSS List
9-10	CSS Tables, CSS Display, CSS Navigation and CSS Button
11-12	CSS Image Gallery and CSS 3:- Transforms, Transitions, Animation

Total Hours (Practical): 24

❖ Core Books:

1. Matthew MacDonald: HTML5: The Missing Manual, O'Reilly Media, August 2011.
2. Peter Gasston: The Book of CSS3: A Developer's Guide to the Future of Web Design, No Starch Press, April 2011.
3. Richard York: Beginning CSS: Cascading Style sheets for Web Design, Wrox Press (Wiley Publishing), 2014.

❖ Reference Books:

1. Ivan Bayross: Web Enabled Commercial Application Development using HTML, JavaScript, DHTML and PHP, 4th revised edition, BPB Publication.

2. David Mc Farland: CSS: The Missing Manual, O'Reilly, 2006.
3. Thomas Powell: HTML & CSS: The Complete Reference, Fifth Edition Paperback, 2010

❖ Web References:

1. http://www.w3schools.com/html/html5_intro.asp [HTML5 notes]
2. <http://www.w3schools.com/css/> [CSS notes]
3. http://www.tutorialspoint.com/internet_technologies/html.htm [HTML notes]
4. <http://james-star.com/answers/en/css3-hover-effect-transitions-transformations-and-animations/> [Animation in CSS]