

Department of Computer Engg.  
Govt. Polytechnic for Women, Rehan  
Distt. - Kangra (H.P.) - 176022



### LESSON PLAN

Program Name	Computer Engineering
Subject Name	Web Technology
Subject Code	IoT-PC-205
Semester	3 <sup>rd</sup>
Subject Teacher Name	Er. Sanjeev Kumar

#### Evaluation Scheme

Sr. No.	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Web Technology	3	4	40	40	80	60	60	120
Reference Books		(i) Web Technologies - A Computer Science Perspective, Jeffrey C. Jackson. (ii) Web programming - Building Internet Application, Chris Bales. (iii) HTML & CSS: Design and Build Websites, John Duckett, Wiley Publishing. (iv) <a href="https://www.w3schools.com">https://www.w3schools.com</a> - HTML, CSS and Java-script Tutorials.							

#### Course Outcomes (COs)

CO - 1	To understand the Internet and WWW terminology
CO - 2	To understand the utilization of Internet services like email, www and FTP.
CO - 3	To develop basic static websites using HTML, CSS and Java-Scripts.

#### Teaching Plan

Unit No.	Name of Topic	Proposed Date	Actual Date	Remarks
1	Brief History of the Internet, Structure of the Internet, Internet Services and Applications	01-08-2024 03-08-2024		
	Different Ways to Connect to the Internet, Common Internet Connection Issues and their Solutions	05-08-2024 08-08-2024		
	World Wide Web, HTTP, Familiarization			

*SK*

*AR*

	with the Key Terms - Network Protocol	12-08-2024		
	DCS	17-08-2024		
	Web Server, Web Browser, Website, Web Application, Hypertext, Hyperlink	19-08-2024		
	Search Engine, Proxy Server, URL, DNS	22-08-2024 24-08-2024		
	HTML, HTML Coding Conventions, HTML Tag, Structure of HTML Element,	29-08-2024		
	Global Attributes - id, class, style, title, tabindex; Structure of a Web Page	31-08-2024 02-09-2024		
	Structure of a Web Page, <html>, <head>, <body>, <!doctype>, <meta> and <title> Elements	04-09-2024 05-09-2024		
	HTML contents, Document Object Model (DOM)	09-09-2024		
	DCS	12-09-2024		
	Lists: Ordered Lists (<ol>), Unordered Lists (<ul>);	14-09-2024		
	Attributes of List Elements: type, start; Nested Lists, Line Break ( ) and Horizontal Rule (<hr>);	16-09-2024 19-09-2024		
2	Text Formatting Elements - <b>, <strong>, <em>, <i>, <mark>, <u>, <sub>, <sup>;	21-09-2024 23-09-2024 26-09-2024		
	DCS	28-09-2024		
	Tables - <table>, <thead>, <tbody>, <tfoot>, <tr>, <th>, <td>, <colgroup>, <col>;	30-09-2024 03-10-2024		
	Table Attributes - cellpadding, cellspacing, border, rowspan, colspan;	05-10-2024 07-10-2024		
	Images - <img>; Image Attributes - src, alt; Hyperlink - <a>; Hyperlink Attributes - href, target;	10-10-2024		
	Block and Inline Elements, Creating Sections - <div>, <span>;	14-10-2024		
4	DCS	19-10-2024		
	Identifying Elements - id, class and name attributes; Frames - <iframe>;	21-10-2024		
	HTML5 Semantic Elements -	24-10-2024 26-10-2024		

*dy*

*Feb*

	<main>, <header>, <footer>			
	<article>, <section>, <nav>, <aside>, <details>, <summary>, <time>, <figure>			
	DCS	28-10-2024		
5	<b>CSS Types - Inline, Internal, External;</b>	04-11-2024 07-11-2024		
	<style> and <link> elements; CSS Rule, Selector and Declaration;	11-11-2024		
	CSS Length Units; CSS Box Model; Setting Margins, Borders and Padding of Elements;	14-11-2024 16-11-2024		
	CSS Colors - Color Names, RGB and HEX Formats; Setting Colors of Text, Background and Border;	18-11-2024		
	Styling Text - font-family, font-size, font-style, font-weight, font-transform, font decoration, text-align;	21-11-2024		
	CSS Layout - position and float; Flexbox and Grid layouts; Styling Tables and Lists;	23-11-2024		
	Basic Animation using CSS, CSS Pseudo Elements and Pseudo Classes	25-11-2024		
	<b>Role of Java-script in a Web Page,</b>	01-11-2023		
6	Embedding Java-script Code in Web Page,	02-11-2023		
	Java-script Variables - Naming, Scope and Lifetime, Hoisting; Java-script Operators, Control Statements;	03-11-2023		
	Java-script Arrays; Linking External Java-script File;	28-11-2024		
	Accessing and Manipulating HTML DOM Elements with Java-script;	30-11-2024		
	JavaScript, Built-in Java script Functions, User-defined Functions	02-12-2024		
	DCS	02-12-2024		

07

42

## Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-1 and Unit-2	02/09/2024		
A-2	Unit-3 and Unit-4	14/10/2024		
A-3	Unit-5, Unit-6	24/11/2024		

## House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1 and Unit-2	As per HPTSB Academic Schedule		
Class Test -2	Unit-3 and Unit-4			
House Test - 1	Unit-1 - Unit-5 and unit -6 basics overview			

## Lab Plan

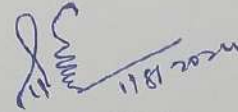
Sr. No	Name of Practical	Proposed Date		Actual Date		Remarks
		G1	G2	G1	G2	
1	To send, receive, reply and forward emails with attachments.	01-08-2024 06-08-2024	03-08-2024			
2	To connect the computer system to the Internet using at least two methods	08-08-2024 13-08-2024	05-08-2024			
3	To install and configure Visual Studio Code for static website development.	20-08-2024 22-08-2024	12-08-2024 17-08-2024			
4	To create a web page consisting of text elements <h1> - <h6>, <p>, <pre>, <code>, <q>, <var> and set their background colours using inline CSS.	27-08-2024 29-08-2024	24-08-2024 31-08-2024			
5	To create a web page consisting of ordered and unordered lists and set their fonts and other text properties using internal CSS.	03-09-2024 05-09-2024 10-09-2024	02-09-2024 09-09-2024			
6	To create a web page using HTML and CSS consisting of different elements arranged in a grid structure with each	12-09-2024 17-09-2024	16-09-2024 21-09-2024			

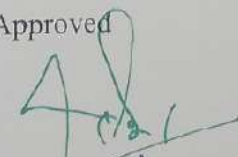
37

72

	containing a different image. The experiment must also demonstrate the CSS box model.					
7	To create a web page containing hyperlinks to the web pages created in the first five experiments. The experiment must demonstrate different values of the target attribute.	19-09-2024 24-09-2024	23-09-2024 28-09-2024			
8	To create a web page using semantic elements <main>, <header>, <footer>, <article>, <section>, <nav>, <aside>, <details>, <summary> with each element properly positioned as per standard web page layout	26-09-2024 01-10-2024	30-09-2024 05-10-2024			
9	To create a web page to demonstrate basic CSS animation	03-10-2024 08-10-2024	07-10-2024			
10.	To create a web page to find out the sum of two numbers using Java-script.	10-10-2024 15-10-2024	14-10-2024 19-10-2024			
11.	To create a web page consisting of a label, a text field, a command button and write Java-script code to find out whether the number entered in the text field is a prime number.	22-10-2024 24-10-2024 29-10-2024	21-10-2024 26-10-2024 28-10-2024 04-11-2024			
12.	To dynamically add HTML elements to a web page using Java-script.	05-11-2024 07-11-2024 12-11-2024	11-11-2024 16-11-2024			
13.	To change the CSS properties of a text element using Java-script.	14-11-2024 19-11-2024 21-11-2024	18-11-2024 23-11-2024 25-11-2024			
14.	To demonstrate frequently used Java-script built-in functions (at least 10).	26-11-2024 28-11-2024	30-11-2024 02-12-2024			

  
(Signature of Teacher)  
Er. Sanjeev Kumar

  
(Signature of HOD)

Approved  
  
(Principal)  
GPW Rehak, Kangra (H.P.)