

Govt. Polytechnic Hamirpur (H.P.)

Practical Planning & Coverage

Branch : Computer Engineering & IoT

Semester : 3rd

Subject : Web Technologies(G2)

Session: August-Dec 2026

Teacher: Vijay Pathania

Laboratory: Programming Lab

Pract No.	Description of Practical	Reference for Procedure/ Writeup	Likely Dates	Actual Dates	Signature
1.	To send, receive, reply and forward emails with attachments.	Lab Manual	04/08/2026		
2.	To connect the computer system to the Internet using at least two methods.	Lab Manual	11/08/2026		
3.	To install and configure Visual Studio Code for static website development.	Lab Manual	18/08/2026		
4.	To create a web page consisting of text elements <h1> - <h6>, <p>, <pre>, <code>, <q>, <var> and set their background colors using inline CSS.	Lab Manual	25/08/2026		
5.	To create a web page consisting of ordered and unordered lists and set their fonts and other text properties using internal CSS	Lab Manual	08/09/2026		
6.	To create a web page using HTML and CSS consisting of different <div> elements arranged in a grid structure with each <div> containing a different image. The experiment must also demonstrate the CSS box model.	Lab Manual	15/09/2026		
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.	Lab Manual	22/09/2026		
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.	Lab Manual	29/09/2026		

9.	To create a web page to demonstrate basic CSS animation	Lab Manual	06/10/2026		
10.	To create a web page to find out the sum of two numbers using Javascript.	Lab Manual	13/10/2026		
11	To create a web page consisting of a label, a text field, a command button and write Javascript code to find out whether the number entered in the text field is a prime number.	Lab Manual	27/10/2026		
12	To dynamically add HTML elements to a web page using Javascript.	Lab Manual	03/11/2026		
13	To change the CSS properties of a text element using Javascript	Lab Manual	21/11/2026		

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Signature of Teacher

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Govt. Polytechnic Hamirpur (H.P.)

Practical Planning & Coverage

Branch : **Computer Engineering & IoT**

Semester : **3rd**

Subject : **Web Technologies(G1)** Session: **August-Dec 2026**

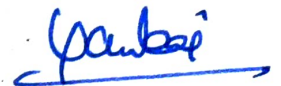
Teacher: **Vijay Pathania**

Laboratory: **Programming Lab**

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Govt. Polytechnic Hamirpur (H.P.)

Lecture Planning (Theory)

Branch : **Computer Engineering & Io** Semester : **3rd**

Subject : **Web Technologies** Session: **Aug-Dec 2026**

Teacher: **Vijay Pathania** Laboratory : **Programming Lab**

Sr. No.	No. of Lectures Planned	Chapter/ Unit Description	Detail of Contents	Reference Resources	Remarks
1.	8	Internet and World Wide Web	Brief History of the Internet, Structure of the Internet, Internet Services and Applications, Different Ways to Connect to the Internet, Common Internet Connection Issues and their Solutions, World Wide Web, HTTP, Familiarization with the Key Terms - Network Protocol, Web Server, Web Browser, Website, Web Application, Hypertext, Hyperlink, Search Engine, Proxy Server, URL, DNS	R2,R1,R4	
2.	8	HTML 5	HTML, HTML Coding Conventions, HTML Tag, Structure of HTML Element, Global Attributes - id, class, style, title, tabindex; Structure of a Web Page - <html>, <head>, <body>, <!DOCTYPE>, <title> and <meta> Elements; HTML Comments, Document Object Model (DOM)	R1,R2,R3,R4, R5	
3.	10	HTML Basic Elements	Headings - <h1> ... <h6>; Paragraphs - <p>, Special Text Elements - <pre>, <code>, <q>, <var>; Lists : Ordered Lists (), Unordered Lists (); Attributes of List, Elements: type, start; Nested Lists, Line Break () and Horizontal Rule (<hr>); Text Formatting Elements - , , , <i>, <mark>, <u>, <sub>, <sup>; Tables - <table>, <thead>, <tbody>, <tfoot>, <tr>, <th>, <td>, <colgroup>, <col>; Table Attributes - cellpadding, cellspacing, border, rowspan, colspan; Images - ; Image Attributes - src, alt; Hyperlink - <a>; Hyperlink Attributes - href, target	R1,R2,R4,R5	
4.	6	HTML Layout Elements	Block and Inline Elements, Creating Sections - <div>, ; Identifying Elements - id, class and name attributes; Frames - <iframe>; HTML5 Semantic Elements - <main>, <header>, <footer>, <article>, <section>, <nav>, <aside>, <details>, <summary>, <time>, <figure>	R1,R2,R5	
5.	8	Cascading Style Sheets	CSS Types - Inline, Internal, External; <style> and <link> elements; CSS Rule, Selector and Declaration; CSS Length Units; CSS Box Model; Setting Margins, Borders and Padding of Elements; CSS Colors - Color Names, RGB and HEX Formats; Setting Colors of Text, Background and Border; Styling Text - font-family, font-size, font-style, font-weight, font-transform, font-decoration, text-align; CSS	R1,R2,R5	

			Layout - position and float; Flexbox and Grid layouts; Styling Tables and Lists; Basic Animation using CSS, CSS Pseudo Elements and Pseudo Classes		
6	8	Javascript	Role of Javascript in a Web Page, Embedding Javascript Code in Web Page, Javascript Variables - Naming, Scope and Lifetime, Hoisting; Javascript Operators, Control Statements; Javascript Arrays; Linking External Javascript File; Accessing and Manipulating HTML DOM Elements with Javascript; JavaScript, Builtin Javascript Functions, User-defined Functions	R1,R2,R3,R4, R5,R6	

Course Outcomes:

After completing this course the students will be able to :

CO-1. Understand the Internet and WWW terminology.

CO-2. Utilise the Internet services like email, www and FTP.

CO-3. Connect a computer to the Internet and troubleshoot common network issues.

CO-4. Develop basic static websites using HTML, CSS and Javascript.

Teaching Resources:

R1. Web Technologies - A Computer Science Perspective, Jeffrey C.Jackson,

R2. Web programming - Building Internet Application, Chris Bales

R3. HTML & CSS: Design and Build Websites, John Ducket, Wiley Publishing

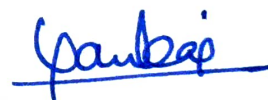
R4. <https://www.w3schools.com> - HTML, CSS and Javascript Tutorials

R5. Mozilla MDN Network Tutorials on HTML, CSS and Javascript

R6. Modern JavaScript Tutorials at <https://javascript.info>



Signature of Teacher with Date



Signature of H.O.D.