# GOVERNMENT OF TAMILNADU
## DIRECTORATE OF TECHNICAL EDUCATION,CHENNAI
### STATE PROJECT COORDINATION UNIT
**(Established under Canada India Institutional Cooperation Project )**

## CURRICULUM

| Course Name | **Web Designing** |
|---|---|
| Course Code | **CSE/2020/004** |
| Course Duration | 80 Hours |
| Minimum Eligibility Criteria and Pre-requisites(if any) | ITI/10th/+2/Diploma/Graduates Basic knowledge in computer |
| | |
| Course Objectives | The candidates will get introduced to web pages designing. Both server side and client side scripting basics will be familiarized. |
| | |
| Course Outcomes | The candidates will be able to design the websites. |
| | |
| Expected Job Roles | Web designer |

| TEACHING AND SCHEME OF EXAMINATION | | | | | | |
|---|---|---|---|---|---|---|
| Course Code | Course Name | Hours | | Assessment Marks | | Duration of Examination |
| | | | | Min | Max | |
| **CSE/2020/004** | **Web Designing** | Theory | 30 | 10 | 20 | 3 Hours |
| | | Practical | 50 | 40 | 80 | |
| | | Total | 80 | 50 | 100 | |

# CSE/2020/004 - WEB DESIGNING

## DETAILED SYLLABUS

| UNIT NO | MODULES | NO.OF.HOURS THEORY |
|---|---|---|
| I | INTRODUCTION TO INTERNET & WEB TECHNOLOGIES | |
| 1.1 | Introduction, How does a website work, Client and Server scripting and languages, Difference between Web Designer and Web Developer, Types of websites, Web Standards. | 02 |
| II | HTML vs HTML5 tags | |
| 2.1 | HTML and HTML5:Mark up language, Structure of HTML, Head and Elements of Head section, Basic Tags HTML-HTML Elements, HTML Attributes, Formatting Tags, HTML Phrase Tags, HTML Comments, HTML Meta Tags, Anchor Tags, Images, Image Links, Tables, Lists, Email Links, Frames, Iframes, | |
| 2.2 | HTML Blocks, DIV and SPAN Tags, HTML Backgrounds, Colors, HTML Forms, Form Elements (Controls, Textbox, Password Box, Checkbox, Text Area, Radio Button, Select Control, File Upload, Button, Hidden Form Controls), Embed Multimedia, Audio and Video, Marquee. Overview of HTML5, Syntax, Attributes, Events, Web Forms. | 10 |
| III | CSS | |
| 3.1 | Introduction to CSS, Types of Style sheets-External style sheet-Internal style sheet-inline style sheet, | |
| 3.2 | Types of CSS Selectors, Universal Selector, Type Selector, Class Selector, ID Selector, Child Selector, Adjacent Selector, Properties | 8 |
| IV | JAVASCRIPT | |
| 4.1 | JavaScript:JavaScript Basics-Object-Based Programming and Message boxes-Java script with HTML-Using JavaScript URLs | |
| 4.23 | JSP : Introduction-JSP elements-Implicit Objects. | 10 |
| | **Total Theory Hours** | **30** |
| | **Total Practical Hours** | **50** |
| | **Total Hours** | **80** |

## PRACTICAL (50 HOURS )

1.  Design a HTML page describing your profile in one paragraph. Design in such a way
    that it has a heading, a horizontal rule, three links and your photo. Also, write three
    HTML documents for the links. Include facilities for forward, backward and HOME.

2.  Design a HTML page about your friends. List your friends. Each friend's name is a link. Prepare
    separate HTML documents for each friend and call them in the appropriate link.

3.  Design a single page website for your polytechnic containing a description of the courses offered. It
    should also contain some general information about the university such as its history, the campus, its
    unique features and so on. The site should be colored and each section should have a different color.

4.  Create a web page that provides links to five different websites.

5.  Design a web page that has 5 equal columns. The table should look the same  in all screen resolutions.

6.  Make out a brief bio-data of yours and code it as an HTML page. You can consider using tables to
    show your academic history.

7.  a)Write a Java script code that converts the entered text to uppercase
    b)Write a Java script code to validate the username and password. The username
    and password are stored in variables.

8.  Write a Java Script code using frames and Events ( When a cursor moves over an object it should
    display the specification of the object in another frame )

9.  a) Write Java script function that finds the maximum of three given numbers.
    b) Write HTML document with Java script to count the number of vowels in a text typed in
       a Text Area..

10. Create a site containing banner ads at the top of the page. The ads are changed every 10 or 15
    seconds.

11. Collect the definitions of 10 items in chemistry. These definitions are stored in two string arrays
    name[] and defn[]. Write a JSP which has these two arrays and supplies the definition on request.
    Write a HTML document which gets the user input of the name of the item and sends the request to
    the JSP.

12. Write a JSP code to manipulate cookies.

13. Write a JSP code to upload data from client side.

14.  Create a JSP application using image map to give information about the institution.

15. Write a program to create the chatting application using Application and Session object.

16. Write a program to check how many users have visited a website. Use Application object.

17. Write a Code in Java Script to count number of times you move over a link orrecord.

18. Write a program to check whether a person will be permitted to open a particularpage or not. Use permission checker component.

19. Write a program using CSS to create a calendar for 1 month.

20. Write a program using CSS to set the background colors, fonts and paragraphs.

## HARDWARE AND SOFTWARE REQUIREMENT

| S.NO | LIST OF TOOLS /EQUIPMENTS |
|------|---------------------------|
| 1 | Desktop /Laptop computers |
| 2 | HTML editor, web browser |
| 3 | Printer |

## REFERENCE BOOKS

| S.NO | NAME OF THE BOOK | AUTHOR | PUBLISHER |
|------|------------------|--------|-----------|
| 1. | Web Design with HTML, CSS, JavaScript and JQuery Set | Jon Duckett | --- |
| 2. | Responsive Web Design by Example Beginner's Guide | Thoriq Firadaus | --- |

## ASSESSMENT AND CERTIFICATION

| S.No | Criteria for assessment |
|------|-------------------------|
| 1. | A trainee will be assessed based on the performance in End Examination for Theory and Practical conducted internally in the Project Polytechnic College for a duration of 3 hours |
| 2. | A trainee must have 75% of attendance to appear for End examination in Theory and Practical. |
| 3. | The assessment for theory part will be based on the marks scored in the end examination on the knowledge bank of questions (1 word/objective type questions) |
| 4. | The assessment for practical part will be based on the marks scored in the end examination conducted by the Project Polytechnic and assessed by the Examiners approved by Strategic Plan Implementation Committee (SPIC) of the project polytechnic. |
| 5. | The criteria for successful completion of training is every trainee should score 50% of marks in theory and practical examination. |
| 6. | On successful completion of training , Certificate will be issued to the participants by the Directorate of Technical Education through the Project Polytechnic. |

## END EXAMINATION

## ALLOCATION OF MARKS

| S.No | Description | Max.Marks |
|------|-------------|-----------|
| 1. | Theory Examination | 20 |
| 2. | Practical Examination | |
| | a)Procedure | 10 |
| | b)Execution | 30 |
| | c)Output | 20 |
| | d)Record | 20 |
| | **Total Marks** | **100** |

**CSE/2020/004 -  WEB DESIGNING**

(Maximum Marks : 20 )

(N.B:  Answer any **twenty** questions)                                                    **20 x 1 = 20 Marks**

1.  What is HTML?

2.  What are tags?

3.  Do all HTML type have an end tag?

4.  What is formatting in HTML?

5.  How to create a hyperlink   in HTM?.

6.  Which HTML tag is used to displaying the data in the tabular form?

7.  How to prepare nested web page in HTML?

8.  What is a marquee?

9.  How to make picture of a background image of a web page?

10. What is the canvas element in HTML5?

11. Which types of video formats are supported by HTML5?

12. What is CSS?

13. What is inline style sheet?

14. What is embedded style sheet?

15. What is the CSS selector?

16.  Name the property used to specify the background color of an element?

17. What is JavaScript?

18. Define naming function in JavaScript?

19. Is JavaScript case sensitive language?

20. What is BOM?

21. What is alert () function?

22. How to write command name java script?

23. What are the data types in java script?

24. What is JSP?

25. What is JSP API consists of?