

**Government of Karnataka**  
**Department of Technical Education**  
**Bengaluru**

	<b>Course Title: Basic Web Design Lab</b>		
	Scheme (L:T:P) : <b>0:2:4</b>	Total Contact Hours: <b>78</b>	Course Code: <b>15CS22P</b>
	Type of Course: <b>Tutorial and Practical's</b>	Credit : <b>03</b>	Core/ Elective: <b>Core</b>
CIE- 25 Marks		SEE- 50 Marks	

**Pre-requisites:**

Knowledge of Text Editor and Internet Basics.

**Course Objectives:**

Create HTML Documents with formatting, images, tables, frames, embed multi-media objects and develop a static website using Hyper Text Mark-up Language.

**Course Outcome**

*On successful completion of the course, the students will be able to attain CO:*

Course Outcome		Experiment linked	CL	Linked PO	Teaching Hrs
CO1	Understand the concepts of website development	<i>Unit-I</i>	<i>U</i>	1,2,4,8,10	<b>6</b>
CO2	Demonstrate knowledge and skills utilizing various HTML tags for designing a static web page.	<i>1,2,3,4</i>	<i>U/A</i>	1,2,3,4,8,9,10	<b>27</b>
CO3	Apply screen-based user interfaces, with graphics, textual components, and navigation systems to achieve a unified, functional environment that results in static web pages.	<i>5,6,7,8,9,10,11,12</i>	<i>U/A</i>	1,2,3,4,8,9,10	<b>24</b>
CO4	Illustrate Table, Frames and relate the Cascading Style Sheets (CSS) features to specify various aspects of style, such as colours and text fonts and sizes, in their HTML documents and to understand the difference between linked, embedded and inline style specifications and how they operate in a “cascade”.	<i>13,14,15,16</i>	<i>U/A</i>	1,2,3,4,8,9,10	<b>21</b>
			<b>Total sessions</b>		<b>78</b>

**Legends:** R = Remember U= Understand; A= Apply and above levels (Bloom’s revised taxonomy)

## Course-PO Attainment Matrix

Course	Programme Outcomes									
	1	2	3	4	5	6	7	8	9	10
<b>Basic Web Design Lab</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	<b>3</b>	<b>3</b>

Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO.

If  $\geq 40\%$  of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3

If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2

If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1

If  $< 5\%$  of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.

## Content

### UNIT – I

#### Tutorials

1. Introduction to HTML: Web site, Web Page, Types of Web Pages, Browsers and their types, Client –Server Model, Web –Server, Working of different types of Web Pages, General structure of a Web Page, Scripting languages, URL, Popular Search Engines, WWW

### UNIT-II

**Note:** All attributes pertaining to respective tags to be practiced.

2. Structure of HTML web page:  
<Head>, <title>, <body>, comments, <div>, <h1>.....<h6>, <hr>, <br>
3. Basic HTML physical character tags:  
<b>, <i>, <u>, <big>, <small>, <sup>, <sub>, <strike>
4. Logical character tags:  
<em>, <strong>, <del>, <insert>, <cite>, <code>, <dfn>, <ins>, <kbd>, <samp>, <strong>
5. Other HTML tags:  
<p>, <font>, <abbr>, <acronym>, <address>, <blockquote>, <quote>, <q>
6. List tags: all tags pertaining to Lists
7. Table tags.
8. Hyper link tag (both Internal & External).
9. Working with Frame and Form tags.
10. Image tags & embedding a multimedia on to a web page(video, audio, zip)
11. Working with CSS (Cascading Style Sheet).
12. Develop a web page using the above tags.

## List of Graded Exercises

1. Design a page having suitable background colour and text colour with title “My First Web Page” using all the attributes of the Font tag.

2. Create a HTML document giving details of your [Name, Age], [Address, Phone] and [Register Number, Class] aligned in proper order using alignment attributes of Paragraph tag.
3. Write HTML code to design a page containing some text in a paragraph by giving suitable heading style.
4. Create a page to show different character formatting (B, I, U, SUB, SUP) tags.  

$$\text{viz : } \log_b m^p = p \log_b m$$
5. Write HTML code to create a Web Page that contains an Image at its centre.
6. Create a web page with an appropriate image towards the left hand side of the page, when user clicks on the image another web page should open.
7. Create web Pages using Anchor tag with its attributes for external links.
8. Create a web page for internal links; when the user clicks on different links on the web page it should go to the appropriate locations/sections in the same page.
9. Write a HTML code to create a web page with pink colour background and display moving message in red colour.
10. Create a web page, showing an ordered list of all second semester courses (Subjects).
11. Create a web page, showing an unordered list of names of all the Diploma Programmes (Branches) in your institution.
12. Create a HTML document containing a nested list showing a content page of any book.
13. Create the following table in HTML with Dummy Data:

Reg. Number	Student Name	Year/Semester	Date of Admission

14. Create a web page which divides the page in two equal frames and place the audio and video clips in frame-1 and frame-2 respectively.

FRAME-1	FRAME-2
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15. Create a web page which should generate following output:

FRAME-1	FRAME-2
	FRAME-3

16. Create a web page using Embedded CSS and multimedia

**Mini Project (CIE -05 Marks):**

Develop a static website consisting of minimum five web pages using any open source Editor like Bluefish, etc.

**References:**

1. <http://www.w3schools.com/html/default.asp>
2. <http://sourceforge.net/projects/bluefish/>
3. <http://bluefish.openoffice.nl/index.html>
4. <http://bluefish.openoffice.nl/features.html>
5. HTML Black Book, Kogent Learning Solutions Inc. ISBN-13 9789350040959
6. "World Wide Web design with HTML" by Xavier. ISBN 0-07-463971-4, Tata McGraw-Hill Publishing company Limited.

**Course Delivery:**

The course will be delivered through tutorials of two hours and four hours of hands on practice per week.

**Course Assessment and Evaluation Scheme:**

Method	What		To whom	When/Where (Frequency in the course)	Max Marks	Evidence collected	Course outcomes
<b>DIRECT ASSESSMENT</b>	CIE (Continuous Internal Evaluation)	IA Tests	Students	Two Tests; (Average of two Tests will be computed.)	10	Blue Books	1,2,3,4
				Record Writing (Average marks of each exercise to be computed)	10	Record Book	1,2,3,4
				Mini Project	05	Report	1,2,3,4
				<b>TOTAL</b>	<b>25</b>		
	SEE (Semester End Examination)	End Exam		End of the course	50	Answer scripts at BTE	1,2,3,4
<b>INDIRECT ASSESSMENT</b>	Student Feedback on course		Students	Middle of the course		Feedback forms	1, 2 Delivery of course
	End of Course Survey			End of the course		Questionnaire	1,2,3,4 Effectiveness of Delivery of instructions and Assessment Methods

\*CIE – Continuous Internal Evaluation

\*SEE – Semester End Examination

**Note:**

1. I.A. test shall be conducted as per SEE scheme of valuation. However obtained marks shall be reduced to 10 marks. Average marks of two tests shall be rounded off to the next higher digit.
2. Rubrics to be devised appropriately by the concerned faculty to assess Student activities.

Questions for CIE and SEE will be designed to evaluate the various educational components (Bloom's taxonomy) such as:

Sl. No	Bloom's Category	%
1	Remembrance	10
2	Understanding	30
3	Application	60

#### Format for Student Activity Assessment

DIMENSION	Unsatisfactory 1	Developing 2	Satisfactory 3	Good 4	Exemplary 5	Score
<b>Collection of data</b>	Does not collect any information relating to the topic	Collects very limited information ; some relate to the topic	Collects some basic information ; refer to the topic	Collects relevant information ; concerned to the topic	Collects a great deal of information ; all refer to the topic	3
<b>Fulfill team's roles &amp; duties</b>	Does not perform any duties assigned to the team role	Performs very little duties	Performs nearly all duties	Performs all duties	Performs all duties of assigned team roles with presentation	4
<b>Shares work equally</b>	Always relies on others to do the work	Rarely does the assigned work; often needs reminding	Usually does the assigned work; rarely needs reminding	Does the assigned job without having to be reminded.	Always does the assigned work without having to be reminded and on given time frame	3
<b>Listen to other Team mates</b>	Is always talking; never allows anyone else to speak	Usually does most of the talking; rarely allows others to speak	Listens, but sometimes talk too much	Listens and contributes to the relevant topic	Listens and contributes precisely to the relevant topic and exhibit leadership qualities	3
<b>TOTAL</b>						<b>13/4=3.2=4</b>

*\*All student activities should be done in a group of 4-5 students with a team leader.*

### Scheme of Evaluation

S.NO.	SCHEME	Max. Marks
1	Writing Steps / Procedure for one Question from Graded Exercises	15
2	Execution	15
3	Presentation Skills	10
4	Viva voce	10
<b>Total</b>		<b>50</b>
<b>Note:</b> <ol style="list-style-type: none"><li>1. Candidate shall submit Lab Record for the Examination.</li><li>2. Student shall be allowed to execute directly even if she / he unable to write the procedure</li><li>3. In case of change in experiment or no write up, marks will not be awarded for writing procedure/steps.</li></ol>		

### Resource requirements for Basic Web Design Lab

(for an intake of 60 Students [3 Batches] )

#### Hardware Requirement:

Sl. No.	Equipment	Quantity
1	PC systems (latest configurations with speakers)	20
2	Laser Printers	03
3	Networking (Structured) with CAT 6e / wireless 24 Port switches / Wireless Router I/O Boxes for networking(as required)	03
4	Broad Band Connection	01

**Software Requirement:** Linux / equivalent Operating System, Editor, Web Browsers.

#### Note:

**Students: Computers** ratio in the Lab should be strictly **1:1** for a batch of twenty Students.

## Model Question Bank

Course Title: **BASIC WEB DESIGN LAB**

Course Code: **15CS22P**

*Note: One Question to be given from the following.*

1. Illustrate a page having suitable background colour and text colour with title “My First Web Page” using all the attributes of the Font tag.
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