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| **Department Name/Institute Name** | | Department of Computer Science and Engineering / Chitkara University Institute of Engineering & Technology | | | | |
| **Program Name** | | BE-Computer Science and Engineering | | | | |
| **Course Code** | | CSP3209 | | | | |
| **Course Name** | | Client Side Technologies Lab | | | | |
| **Labs (per week)** | | 0-0-6 | **Course Credits** | 3 |
| **Course Coordinator Name** | | Er. Saravjeet Singh | | |

1. **Scope and Objectives of the Course**
2. This lab intends as an introductory practical study of HTML/CSS/Javascript. It provides a clear description of basic concepts that underlie in the field of web development.
3. This lab also explains the application of validations that are applied in the websites.
4. Students will develop awareness and appreciation of the many ways that people access the web, and will be able to create standards-based websites that can be accessed by the full spectrum of web access technologies.

**2. Recommended Books**

**RB1: ‘**Web Enabled Commercial Application Development using HTML, JavaScript, DHTML and PHP’ by Ivan Bayross , 4th Edition, BPB Publications

**RB2**: ‘The Complete Reference HTML & XHTML’ by Thomas A. Powell, 4th Edition, TMH Publishing

**RB3:** ‘Developing Web Applications’ by Moseley & Ralph, Wiley.

**RB 4:** ‘Learning Web design : a beginner's guide to HTML, CSS, JavaScript,and web graphics’ by Niederst Robbins, Jennifer, Mumbai Shroff Publishers.

**3. Other readings and relevant websites**

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| **S.No**. | **Link of Journals, Magazines, websites and Research Papers** |
| 1 | <http://www.w3schools.com> |
| 2 | <http://www.tizag.com> |
| 3 | <https://developer.mozilla.org/en-US/docs/HTML/Introduction> |
| 4 | <https://www.codeschool.com/courses/front-end-foundations> |
| 5 | <https://www.codeschool.com/courses/try-jquery> |
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1. **Lab Plan**

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| **S. No.** | **Experiment Detail** |
| **1** | Write HTML Code to display the following and also display the title using heading tag. |
| **2** | Write HTML code for below diagram by using horizontal line, heading tag, colors to suitably distinguish headings, font styling like italics and underline. |
| **3** | Demonstrate the usage of formatting, marquee and blink tag to print below output.  **Various formulas** (Marquee)  H2O  H2SO4  ~~Text~~  X2  X2 + Y2=Z  Y = mx + c |
| **4** | Write HTML code to display following List   1. Linux 2. Unix 3. HTML 4. DHTML 5. JavaScript 6. Perl 7. PHP 8. SQL 9. Oracle 10. CCNA |
| **5** | Write HTML code to display following List  **Bachelor of Engineering**   * CSE * Software Engineering * Data Structures * Theory of Computation * ME   + Strength of Material   + Mobility * ECE * VLSI design * Wireless communication |
| **6** | Write the HTML code to add a link on the text “Click here” and image of “Chitkara university logo”, when you click on these link then open [www.chitkara.edu.in](http://www.chitkara.edu.in). |
| **7** | Create a document with two links to an external document. The first link should lead to the beginning of the external document. The second link should lead to a particular section in the external document. |
| **8** | Create an image-map, with clickable regions. Use image of India and create link for any 5 states. |
| **9** | i) Write HTML code for the following table :   |  |  |  |  | | --- | --- | --- | --- | | S.No. | Particulars | No. of Items | Price | | 1. | Hard Disks | 2 | 4000.00 | | 2. | Monitors | 3 | 15000.00 | | 3. | CD ROM | 2 | 1000.00 | | 4. | DVD Writer | 4 | 6000.00 | |
| **10** | Create a table to show your class time-table. |
| **11** | Write HTML code the following form:  Untitled |
| **12** | Write HTML code for the following frames:  B |
| **13** | Write HTML code to display frame    In top-left corner insert an image. In top\_right give a good caption to your page. In bottom\_left provide various hyperlinks which should open in Bottom\_right frame. |
| **14** | Write a HTML code to create iframe. (Display a web page within a web page). |
| **15** | Change the text color, background color and text size of paragraph and list using internal Style sheet and External Style sheet. |
| **16** | Write a code to display a message after some delay specified by user using JavaScript. |
| **17** | i) WAP to print series from 10 to 1 using JavaScript.  ii) Write a program to demonstrate the working of alert box, confirm box and prompt box. |
| **18** | i) WAP to input five elements in and array and print using JavaScript  ii) Write a JavaScript program to change background color after 5 seconds of page load. |
| **19** | i)WAP to find factorial of a number using JavaScript  ii) WAP to display all the prime numbers between 1 to 100. |
| **20** | WAP to implement Java Script – event handling like onblur, onchange, ondbclick, onclick, onfocus, onkeydown, onkeyup, onkeypress, onload, onunload, onmouseover, onmouseout, onmousedown, onmouseup, onmousemove, onreset, onselect, onsubmit. |
| **21** | Implement Javascript Objects: Maths, String ,Date, Array. |
| **22** | Use getElementsByTagName, getElementsById, getElementsByClassName method to find the <p> element, and change its text to "Hello World!". Also change the value of HTML element. |
| **23** | Implement DOM Node properties: childnodes, firstnode, lastnode, nodename, nodetype, nodevalue, parent node. |
| **24** | Implement DOM Node methods by making a list of grocery items purchased from super market using appendchild() and remove child(), createnode() and text type Node creation, node removal, Traversing a Document's Nodes |
| **25** | Implement DOM Objects: Window, History object with their method and properties |
| **26** | Implement DOM Objects: Location, Document, Form object with their method and properties |
| **27** | WAP to implement validation on form in Javascript. |
| **28** | Use the on() method to attach a click event handler to all <p> elements. Similarly, implement jQuery event elements and methods for the same. |
| **29** | Using jQuery animate () method create custom animations. Also implement chaining effect by writing a paragraph and insert a button, on clicking button chaining effect of paragraph and buttonoccurs |
| **30** | Insert three paragraphs and using the children() method add a red color to the first child element of <div>. |
| **31** | Use a jQuery method to slide down the <div> element. The duration of the effect should be 5000 milliseconds. |
| **32** | Implement all jQuery Selectors |
| **33** | WAP for a basic Bootstrap page with a responsive full width container and a grid shown below. (Style it with different colors). |
| **34** | WAP to implement the looks of a Profile page given below.   1. Place the heading in a big box 2. Place your circled image on the left grid. 3. Place a responsive, striped table on the right side of the grid. 4. Use grid and full width container. |
| **35** | WAP to Implement Inverted Navbar and collapsible List group i.e. on clicking list group it should be collapsible. |
| **36** | WAP to implement bootstrap carousel. The Carousel plugin is a component for cycling through elements, like slideshow. |

**5. Evaluation Scheme:**

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| Component 1\* | Lab Performance | 40 |
| Component 2 | Internal Viva | 20 |
| Component 3\*\* | External Viva | 40 |
|  | Total | 100 |

\*Lab Performance will be evaluated periodically.

\*\*The End Term examination for practical courses is held at the end of semester and includes conduct of experiment and an oral examination (viva voce).The mandatory requirement of 75% attendance in all lab classes is to be met for being eligible to appear in this component.

**6. Details of Evaluation Component 1 and Component 2**

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| **Description** | **Marks** | **To be held in week** | **Remarks** |
| Lab Performance 1 | 20 | 4th-5thweek | Program Execution(10Marks)+Viva(5 Marks)+File(5 Marks) |
| Lab Performance 2 | 20 | 8th-9thweek | Program Execution(10 Marks)+Viva(5 Marks)+File(5 Marks) |
| Internal Viva | 20 | 14th week | Program Execution(10 Marks)+Viva(5 Marks)+File(5 Marks) |

\*\* Program Execution is to be done on Online Platform.

**This document is approved by**

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| **Designation** | **Name** | **Signature** |
| Course Coordinator | Er. Saravjeet Singh |  |
| Program Incharge | Er. Sudha Goyal |  |
| Deputy Dean | Er. Meenu Khurana |  |
| Date | July 6, 2017 |  |