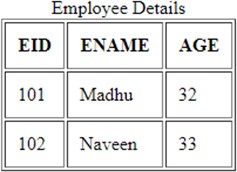
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| **COURSE SYLLABUS** | |
| **SEMESTER-I** | |
| **Course Name: Introduction to Web Programming** | **Course Code: BPLCK105A/BPLCK205A** |
| **No. of Lecture hours / week:** 02 | **CCE Marks:** 50 |
| **No. of Tutorial hours / week:** 00 | **SEE Marks:** 50 |
| **Total No. of Lecture Hours + Tutorial hours:** 25 | **SEE Duration:** 03 hr. |
| **L: T: P:** 2:0:2 | **Credits:** 03 |
| **Module-I**  **Introduction to web technologies**: Internet and web, HTML, JavaScript, CSS, XML, XHTML, AJAX, ASP.NET, PHP, Web Services  Structuring of HTML document – Elements and attributes, tags, the DOCTYPE element. Understanding elements, physical style elements.  SSC: Applications of web.  Text Book 1 : Ch.1,ch-2,ch-3 | |
| **Module-II**  HTML5 Elements: DIV and SPAN elements, exploring hyperlink and URLs, Table elements, Images in web page, input element, button, multi choice, submitting forms.  SSC: static and Dynamic webpages.  Textbook 1: Ch-4,ch-5,ch-6,ch-7,ch-8 | |
| **Module-III**  CSS: Syntax of CSS, CSS selectors, CSS in HTML doc, Color property, image property, size property, background property, font family, font size property, font style property, font variant property, font weight property, font property.  SSC: CSS padding  Textbook 1: Ch-18,ch-19,ch-20 | |
| **Module-IV**  CSS with box, column, table and list: CSS to text, box model, template layout model, display of an element using CSS, positioning an element, list styles, table layouts  SSC: Pseudo-classes  Textbook 1: Ch-21,ch-22, ch-23, ch-24 | |
| **Module-V**  JavaScript: Features of JavaScript, JavaScript in HTML doc, Programming Fundamentals, exploring functions, Events: HTML Forms, keyboard, objects in JavaScript, onclick event, mouse events, reset events, onsubmit event.  SSC: Dynamic webpages using javascript Textbook 1: Ch-11, ch-12, ch-13 | |



PRACTICAL MODULE

1. Develop a HTML program to display the working of following elements: Page title, page heading, paragraph, line break, horizontal line, heading tags, body, bold, italic, small element, subscript and super script element, strong element, and mark tag. (**Demonstrate)**
2. Develop a HTML program to display: (**Demonstration) a)Table (shown below) b)use of image tag**
3. Write an HTML page that contains a simple user sign up form with following fields: First name, Last name, Date of Birth, Place of Birth, Current Address, Gender and a submit button. **(Structured Inquiry)**
4. Create a HTML webpage with the following CSS specifications: Set background color of the page as Blue, Text color as White, set different borders on each side, and an image floating to the right in a text. **(Demonstration)**
5. Design HTML webpage with following CSS specifications: Show any two-font family through text, decorated the text through plain, underline, overline and line through, display the head text with shadow in red color. **(Structured Inquiry)**
6. Design and develop HTML program to display VIBGYOR. (**Demonstration)**
7. Design and develop HTML program to display Chess Board. (**Exercise)**
8. Write a JavaScript function to count the number of vowels in each string. **(Demonstrate)**
9. Write a JavaScript to design a simple calculator to perform the following operations: sum, product, difference, and quotient**. (Exercise)**
10. Design and develop a program to create a countdown timer with JavaScript. **(Exercise)**

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| **Textbooks:**  1. HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, Second Edition | | | | | | | | |
| **Reference Books:**   1. Robin Nixon, “Learning PHP, MySQL &JavaScript with jQuery, CSS and HTML5”, 4th Edition, O’Reilly Publications, 2015. (ISBN:978-9352130153) 2. Luke Welling, Laura Thomson, “PHP and MySQL Web Development”, 5th Edition, Pearson Education, 2016. (ISBN:978-9332582736) 3. Nicholas C Zakas, “Professional JavaScript for Web Developers”, 3rd Edition, Wrox/Wiley India, 2012. (ISBN:978-8126535088) | | | | | | | | |
| **Course Outcomes:** | | | | | | | | |
| **CO1** | | Explain basic concepts of web development | | | | | | |
| **CO2** | | Apply concepts of web technology to create web pages | | | | | | |
| **CO3** | | Design and develop static web pages | | | | | | |
| **CO4** | | Design and develop web-based solutions for societal problems | | | | | | |
| \*CO4 will be assessed in CIE only | | | | | | | | |
| **SEE - Course Assessment Plan** | | | | | | | | |
| **CO** | **Marks Distribution** | | | | | | **Total**  **Marks** | **Weightage**  **(%)** |
| **Module- 1** | | **Module- 2** | **Module- 3** | **Module- 4** | **Module- 5** |  |  |
| **CO1** | 12 | | 7 | 8 | 8 | 15 | 50 | 50% |
| **CO2** | 8 | | 7 | 6 | 6 | 5 | 32 | 32% |
| **CO3** | 0 | | 6 | 6 | 6 | 0 | 18 | 18% |
|  | **20** | | **20** | **20** | **20** | **20** | **100** |  |

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| **Intra-Module Choice for Answering of Questions** | |
| **Module - 2** | **Module - 3** |
| In other modules there will be no choice for answering | |