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| --- | --- | --- | --- | --- | --- | --- |
| **Subject Code**  **20ITP378** | **WEB TECHNOLOGIES lab** | **L** | **T** | **P** | **S** | **C** |
| **Total Contact Hours : 45 Hours** | **0** | **0** | **2** | **0** | **1** |
|  | | | | | |
| **Pre-requisites:** | HTML, java script, bb script | | | | | |
| **Co-requisites** | Java script | | | | | |
| **Anti-Requisites** | Multimedia | | | | | |

**Course Objectives:**

* This Subject is useful for Making own Web page and how to host own web site on internet. Along with that Students will also learn about the protocols involve in internet technology.

**Course Outcomes: (5 Required)**

* To know the History and development of the World Wide Web and associated technologies.
* To know and apply the concept of client-server architecture of the World Wide Web and its communication protocol HTTP/HTTPS.
* To choose the Formats and languages used in modern web-pages: HTML, XHTML, CSS, XML, XSLT, JavaScript, DOM.
* To apply Programming web pages with JavaScript/DOM (client)
* To implement Good design, universal design, multi-platform web applications..

**Contents of the Syllabus:**

**UNIT-I [15h]**

Experiment 1: Design the following static web pages required for an online book store web site.

1) HOME PAGE: The static home page must contain three frames.

2) LOGIN PAGE

3) CATOLOGUE PAGE: The catalogue page should contain the details of all the books available in the web site in a table.

4) REGISTRATION PAGE

Experiment 2: **Write *JavaScript* to validate the following fields of the Registration page.**

**1. First Name** (Name should contains alphabets and the length should not be less than 6 characters).

**2. Password** (Password should not be less than 6 characters length).

**3. E-mail id** (should not contain any invalid and must follow the standard pattern name@domain.com)

**4. Mobile Number** (Phone number should contain 10 digits only).

**5. Last Name and Address** (should not be Empty).

Experiment 3: **Develop and demonstrate the usage of inline, internal and external style sheet using CSS**

Experiment 4: **Develop and demonstrate JavaScript with POP-UP boxes and functions for the following problems:**

**a)** Input: Click on Display Date button using onclick( ) function

Output: Display **date** in the textbox

**b)** Input: A number n obtained using **prompt**

Output: **Factorial** of n number using **alert**

**c)** Input: A number n obtained using **prompt**

Output: A **multiplication table** of numbers from 1 to 10 of n using

alert

**d)** Input: A number n obtained using **prompt** and add another number

using **confirm**

Output: **Sum** of the entire n numbers using **alert**

**UNIT-II**

Experiment 5: **Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next in the list. Add CSS to customize the properties of the font of the capital (color,bold and font size).**

Experiment 6: **Write an HTML page including any required JavaScript that takes a number from text field in the range of 0 to 999 and shows it in words. It should not accept four and above digits, alphabets and special characters.**

Experiment 7: **Develop and demonstrate PHP Script for the following problems:**

**a) Write a PHP Script to find out the Sum of the Individual Digits.**

**b) Write a PHP Script to check whether the given number is Palindrome or not**

**UNIT-III**

Experiment 8: **Create an XML document that contains 10 users information. Write a Java Program, which takes User Id as input and returns the user details by taking the user information from XML document using DOM parser or SAX parser.**

Experiment 9: **Implement the following web applications using (a) PHP**

(b) Servlets

(c) JSP

Experiment 10: **Implement the web applications with Database using**

**(a) PHP, (b) Servlets and (c) JSP.**

**TEXT BOOKS/REFERENCE BOOKS**

1. Steven Holzner, ”HTML Black Book”, Dremtechpress.
2. Web Technologies, Black Book, DreamtechPress
3. Web Applications : Concepts and Real World Design, Knuckles,Wiley-India
4. Internet and World Wide Web How to program, P.J. Deitel& H.M. DeitelPearson..

# Mode of Evaluation: The performance of students is evaluated as follows:

|  |  |  |
| --- | --- | --- |
|  | **Theory** | |
| **Components** | **Continuous Internal Assessment (CAE)** | **Semester End Examination (SEE)** |
| **Marks** | **60** | **40** |
| **Total Marks** | **100** | |

**Relationship between the Course Outcomes (COs) and Program Outcomes (POs)**

|  |  |  |
| --- | --- | --- |
| **Mapping Between COs and POs** | | |
| **SN** | **Course Outcome (CO)** | **Mapped Programme Outcome (PO)** |
| 1 | CO1 | PO1 |
| 2 | CO2 | PO5 |
| 3 | CO2 | PO2 |
| 4 | CO4 | PO12 |
| 5 | CO5 | PO9, PO12 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **COs** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
| **CO1** | 3 | – | -- | – | – | – | – | – | – | – | – | – | – | -- |
| **CO2** | -- | – | – | – | 3 | – | -- | – | - | – | – | – | – | – |
| **CO3** | - | 3 | -- | – | -- | – | -- | -- | – | – | – | – | – | – |
| **CO4** | -- | -- | -- | – | – | – | – | -- | -- | – | – | – | – | 3 |
| **CO5** | --- | -- | -- | -- | – | – | – | – | 3 | – | – | – | – | 3 |

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|  |  | **Engineering Knowledge** | **Problem analysis** | **Design/development of solutions** | **Conduct investigations of complex** | **Modern tool usage** | **The engineer and society** | **Environment and sustainability** | **Ethics** | **Individual or team work** | **Communication** | **Project management and finance** | **Life-long Learning** |
| Course Code | Course Name | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **1**  **0** | **1**  **1** | **12** |
| **20ITP-378** | **WEB TECHNOLOGIES lab** |  |  |  |  |  |  |  |  |  |  |  |  |

1 = addressed to small extent

2 = addressed significantly

3 = major part of course