**Course Outcomes**

**Name of Faculty : Ms.Y.Durga Bhargavi**

**Subject : Web technologies**

**Year and Semester : III – II (A)**

1. Use server-side technologies such as PHP, Servlet and JSP to develop a dynamic and interactive website. (AL & L3)
2. Create a XML page which describe the data and differentiate between the DOM and SAX parser (UL & CL, L2& L6)
3. Develop a Servlet program for accessing data from database using JDBC and understand the use of cookies and sessions. (AL & L3)
4. Develop a JSP program for accessing data from database and understand the use of session and cookies in session tracking. (AL & L3)
5. Write a java script program for form validation. (AL & L3)
6. Demonstrate a simple AJAX Application. (UL & L2)

**Program Outcomes**

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions**: Design solutions for complex enginee ring problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11**. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Program Specific Outcomes**

1. An Ability to apply knowledge of mathematics, Science and fundamental concepts of Computer Science and Engineering.

2. An ability to design, implement and evaluate a computer based system, process, component, or program to meet desired needs.

3. An ability to use techniques, skills and modern hardware and software tools necessary for computer engineering practice.

**CO to PO Mapping**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO 1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 2 | 2 | 1 |
| **CO2** |  | 3 | 2 | 1 | 1 |  |  |  | 3 | 3 | 3 | 1 |
| **CO3** | 3 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO4** | 3 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO5** | 3 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO6** |  | 2 | 1 | 2 | 1 |  |  |  |  |  | 2 | 1 |

1. High 2 – moderate 3 – low

|  |  |  |  |
| --- | --- | --- | --- |
| **CO to PSO Mapping** | | | |
|  |  |  |  |
|  | **PSO 1** | **PSO2** | **PSO3** |
| **C01** | 3 | 1 | 1 |
| **CO2** | 3 | 1 | 1 |
| **CO3** | 3 | 1 | 1 |
| **CO4** | 3 | 1 | 1 |
| **CO5** | 3 | 1 | 1 |
| **CO6** | 3 | 1 | 1 |

**Course Outcomes**

**Name of Faculty: Mrs. Y. Durga Bhargavi**

**Subject : Web technologies LAB**

**Year and Semester : III – II (A & B)**

1. Use web application development software tools i.e. LAMP, PHP and XML etc. and identify the environments currently available on the market to design web sites. (UL & L2)
2. Develop a static webpage using HTML, Java script and CSS. (AL & L3)
3. Design web pages by embedding java script code in HTML , Use java Script to validate user input. (AL & L3)
4. Develop a web application for any domain(which includes login page, Registration, add , edit and delete information using PHP, Servlet and JSP. (AL & L3)
5. Write a program to use an XML file instead of database. (AL & L3)
6. Develop a web application that lists all cookies stored in the browser on clicking “List Cookies” button. (AL & L3)

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**CO and PO Mapping**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO 1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** |  |  | 2 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO2** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO3** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO4** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO5** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |
| **CO6** | 2 | 2 | 1 | 2 | 1 |  |  |  | 3 | 3 | 2 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| **CO to PSO Mapping** | | | |
|  |  |  |  |
|  | **PSO 1** | **PSO2** | **PSO3** |
| **C01** |  | 1 | 1 |
| **CO2** | 2 | 1 | 1 |
| **CO3** | 2 | 1 | 1 |
| **CO4** | 2 | 1 | 1 |
| **CO5** | 2 | 1 | 1 |
| **CO6** | 2 | 1 | 1 |