 

K J Somaiya College of Engineering, Mumbai-400077

# Department of Computer Engineering

List of Experiments

# Course: Web Programming Laboratory (216U01L405)

**Year : 2024-2025 (Second Term) Semester –IV**

| **Course**  **Outcome** | **After completion of this course students should be able to** |
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| **CO1** | Design dynamic web pages using various HTML tags. |
| **CO2** | Use CSS to prepare the layout of web pages. |
| **CO3** | Apply JavaScript for validation in client side programming. |
| **CO4** | Integrate server side pages using php. |
| **CO5** | Apply database operations by integrating SQL queries and session variables. |

| **Sr.**  **No** | **Topic** | **CO**  **Mapping** | |
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| **0** | **Installation/Introduction**:  A) Any code Editor: VSCODE, ATOM, Sublime text editor, Notepad++ etc.  Any online Editor.  B) Xampp Server Installation.  C) Git & Github: Version Control System. |  |
| 1 | **HTML:**  **Design the static web pages with the help of HTML5**.  **Example:**  A) 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 catalog page should contain the details of all the books available on the website in a table.  4) REGISTRATION PAGE  B) Create a table to show your class timetable. | CO1 |
| 2 | **Develop and demonstrate the usage of inline, internal and external style sheets using CSS**. | CO2 |
| 3 | **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  d**) Write JavaScript to validate the following fields for the registration page**.  Name (Name should contain alphabets and the length should not be less than 6 characters).  Password (Password should not be less than 6 characters length).  E-mail id (should not contain any invalid and must follow the standard pattern  name@domain.com)  Phone number (Phone number should contain 10 digits only). | CO3 |
| 4 | **Demonstrate the use of Bootstrap:**  **Create a “registration form “with the following fields**  **a) Name (Text field) (**(Name should contains alphabets and the length should not be less than 6 characters)  **b) Password (password field) (**(Password should not be less than 6 characters length)  **c) E-mail id (text field) (**should not contain any invalid and must follow the standard pattern [name@domain.com](mailto:name@domain.com))  **d) Phone number (**Phone number should contain 10 digits only)  **e) Sex (radio button)**  **f) Date of birth (3 select boxes)**  **g) Languages known (checkboxes – English, Telugu, Hindi, Tamil)**  **h) Address (text area)** | CO2 |
| 5 | **Develop and Demonstrate the use of From Handling and Validation in PHP:**  **Example:**  Design the personal information form, submit and retrieve the form data using php $\_POST, $\_GET,$\_REQUEST variable. | CO4 |
| 6 | **Demonstrate the use of Cookies and Session in PHP**.  To Understand Difference between cookies & sessions.  To Understand how to create & destroy session /Cookies variables. | CO4 |
| 7 | **Demonstrate the file Uploading in PHP** | CO4 |
| 8 | **Design and Demonstrate database Connectivity between PHP & MYSQL**  a) Write a PHP code to create a database & table in Mysql.  b) Write a PHP code to insert, delete, select and Update the data from the database.  c) Create Dynamic, Interactive and database -Driven web application Individually using php & mysql. | CO5 |
| 9 | **Deployment of Web application** |  |

**Mini Project:**

| **Mini Project on Web Programming Lab. (25M)** |
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| * Mini project is between 3 students only. * Selected topic specifies the details of implementation. * Mini project includes the demonstration of the usage of:   :- HTML/HTML5,CSS/CSS3, Bootstrap 3/4, JavaScript, JavaScript validation, PHP, PHP forms, PHP Validation, PHP Session, Database Connectivity, Deployment of Project.   * Usage of Version control system. (Github). |

**Course Teachers:**