

B.Tech. (VI Sem.)

20CS63-SERVER-SIDE SCRIPTING LAB

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**Pre-requisite** : JAVA Programming & Web Technologies

**Course Educational Objective:** Students will learn the importance of client-server architecture in the web application development and able to develop dynamic data driven (server-side) web applications by using advanced technologies (AJAX, PHP)

**Course Outcomes (CO):** *At the end of this course, the student will be able to:*

- CO1:** Understand the differences between server-side and client-side script, develop simple server-server-side web applications. **(Understand - L2)**
- CO2:** Identify the importance of AJAX, PHP programming constructs to design server-side web applications. **(Remember - L1)**
- CO3:** Develop Dynamic Data Driven (Server-side) Web Applications by using AJAX, PHP. **(Apply - L3)**
- CO 4:** Improve individual / teamwork skills, communication & report writing skills with ethical values.

**Module 1:**

- a) Develop a static web application and deploy it in any one of the web servers (WAMP/Apache Tomcat/IIS).
- b) Develop a JavaScript program to validate the client-side user input data (Example: username, password, email, phone number).

**Module 2:**

- a) Create a XMLHttpRequest with a callback function and retrieve data from a TXT file by using AJAX.
- b) Create an XMLHttpRequest to retrieve data from an XML file and display the data in an HTML table by using AJAX.

**Module 3:**

- a) Develop AJAX application to demonstrate how a web page can communicate with a web server while a user type characters in an input field.
- b) Develop a simple web application to demonstrate how a web page can fetch information from a database with AJAX.

**Module 4:**

- a) Develop a PHP program to illustrate the PHP Form handling by using GET and POST methods.
- b) Develop a PHP program to demonstrate the importance of include() and require() functions.

**Module 5:**

- a) Develop a PHP program to manage the state information about the user by using PHP Cookie.
- b) Develop a PHP program to manage the state information about the user by using PHP Session.

**Module 6:**

- a) Develop a PHP program to perform various file handling operations.
- b) Develop a PHP program to demonstrate the process of uploading and downloading the file.

**Module 7:**

- a) Develop a PHP program to describe the importance of mail function to send the email.
- b) Develop a PHP and AJAX program which demonstrates how a web page can communicate with a web server while a user types characters in an input field.

**Module 8:**

- a) Develop a PHP web application which demonstrates the process of storing HTML form data into MySQL database.
- b) Develop a PHP web application which demonstrates the process of retrieving table data from the MySQL database and display it in the HTML table.

**Module 9:**

- a) Develop a PHP web application which demonstrates the process of deleting a particular record in MySQL database table.
- b) Develop a PHP web application to illustrate the process of updating MySQL database table data.

**Module 10:**

- a) Develop a PHP web application which demonstrates how to upload image into database and display it.
- b) Develop a PHP web application which demonstrates the process of encode and decode JSON by the help of json\_encode() and json\_decode() functions.

**REFERENCE BOOKS:**

1. Steven Holzner, “PHP: The Complete Reference”, McGraw-Hill Education, 2007.
2. Kevin Tatro, Peter MacIntyre, RasmusLerdorf, “Programming in PHP”, O'Reilly, 3<sup>rd</sup> Edition, 2013.
3. Luke Welling, Laura Thomson, “PHP and MySQL Web Development”, Pearson Education, 5<sup>th</sup> Edition, 2011
4. Lynn Beighley, Michael Morrison, “Head First PHP & MySQL: A Brain-Friendly Guide”, O'Reilly, 1<sup>st</sup> Edition, 2007