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MEAN Stack Technologies Lab					

### Course Objectives:

From the course the student will

- Learn the core concepts of both the frontend and backend programming course.
- Get familiar with the latest web development technologies.
- Learn all about SQL and Mongo databases.
- Learn complete web development process.

**Course Outcomes:** At the end of the course, student will be able to

- Identify the Basic Concepts of Web & Markup Languages.
- Develop web Applications using Scripting Languages & Frameworks.
- Creating & Running Applications using JSP libraries.
- Creating Our First Controller Working with and Displaying in Angular Js and Nested Forms with ng-form.
- Working with the Files in React JS and Constructing Elements with Data.

### Experiment-1:

Develop static pages (using only HTML) of an online Book store. The pages should resemble: [www.amazon.com](http://www.amazon.com). The website should consist of the following pages. Home page

- Registration and user Login
- User profile page
- Books catalog
- Shopping cart
- Payment by credit card Order Conformation

### Experiment-2:

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-3:

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

- Input: Click on Display Date button using on click ( ) function Output: Display date in the textbox
- Input: A number n obtained using prompt Output: Factorial of n number using alert
- Input: A number n obtained using prompt Output: A multiplication table of numbers from 1 to 10 of n using alert
- Input: A number n obtained using prompt and add another number using confirm Output: Sum of the entire n numbers using alert

### Experiment-4:

Create a simple visual bean with a area filled with a color. The shape of the area depends on the property shape. If it is set to true then the shape of the area is Square and it is Circle, if it is false. The color of the area should be changed dynamically for every mouse click.

### Experiment-5:

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-6:**

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

**Experiment-7:**

Implement the following in CSS

- a) Implementation of 'get' and 'post' methods.
- b) Implementation in colors, boarder padding.
- c) Implementation button frames tables, navigation bars.

**Experiment-8:**

Implement the web applications with Database using

- a) PHP,
- b) Servlets and
- c) JSP.

**Experiment-9:**

Write a program to design a simple calculator using

- a) JavaScript
- b) PHP
- c) Servlet and
- d) JSP.

**Experiment-10:**

Create registration and login forms with validations using Jscript query.

**Experiment-11:**

Jscript to retrieve student information from student database using database connectivity.

**Experiment-12:**

Implement the following in React JS

- a) Using React Js creating constructs data elements.
- b) Using React Js implementations DoM.

**Experiment-13:**

Implement the following in Angular JS

- a) Angular Js data binding.
- b) Angular JS directives and Events.
- c) Using angular Js fetching data from MySQL.

**Experiment-14:**

Develop and demonstrate Invoking data using Jscript from Mongo DB.

**Experiment-15:**

Create an Online fee payment form using JScript and MangoDB.