

Pandit Deendayal Energy University

Department of ICT

Subject: Web Technology

Semester: 6

Subject Code: 23IC301P

Academic Year: 2023-24

Course Outcomes (COs):

After completion of the course students will be able to:

At the end of this course students will be able to

CO1 – Learn the Web Design Concepts including WWW, HTTP protocol and Browser.

CO2 – Understand the design and style concepts of webpages using HTML and CSS

CO3 – Implement Javascript functionality to make interactive webpages

CO4 – Illustrate server side scripting with PHP and JSP.

CO5 – Assess the data communication delay between webserver and client using AJAX with XML and JSON.

CO6 – Build a complete web solution for a given problem statement

Practical List

Sr. No.	AIM
1.	Build web pages for your college with course details, departments, faculties, and the library. Use HTML href and list tags.
2.	Develop a web page showing your class timetable using HTML tables.
3.	A) To create user Student feedback form (use textbox, text area, checkbox, radio button, select box etc.) B) To create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width = 80%). On clicking the navigation Links corresponding content must be shown on the right hand side. Content of the webpage should be your resume.

4.	<p>A) To use External CSS to format your resume.</p> <p>B) To use External CSS to format your class timetable as you created.</p>
5.	<p>A) To implement Validation in above Feedback Form.</p> <p>B) To use regular expression for validation in Feedback Form.</p>
6	Install & Configure Visual Studio Code as an IDE, setup an environment for React by downloading Node.js and install React along with its packages. Understand the folder structure used by React and develop a “Hello World Application”.
7	Implement React Routing for navigating 5 different webpages. Design a responsive navbar in ReactJS by using media queries, Material-UI/React-Bootstrap.
8	Create React Sidebar Navigation Menu for a webpage. Implement the concept of React Hooks for backward compatibility and faster user experience.
9	Create simple cards using MaterialUI and React. Use animations to make it more attractive
10	Design an attractive Login and Registration form using Material-UI. Use Validations to validate the errors and prompt the errors on the webpage.