

# ANURAG ENGINEERING COLLEGE

(An Autonomous Institution)

III Year B. Tech. CSE - II Sem

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## (CS606PC) WEB TECHNOLOGIES LAB

### Prerequisites:

1. A course on "Computer Programming and Data Structures"
2. A course on "Objected-Oriented Programming Through Java"

### Co-Requisite:

1. A course on "Web Technologies"

### Course Objectives:

- Developing static web pages using HTML and CSS.
- Data Validations using JavaScript.
- To build XML applications with DTD and style sheets that span multiple domains.
- Manipulating data in the database using JDBC
- Developing Dynamic pages using servlets and JSP.

### Week - 1:

Design the following static web pages required for an online book store web site.

- 1)HOME PAGE:
- 2)LOGIN PAGE:

### Week - 2:

Design the student REGISTRATION PAGE:

### Week - 3:

Write an HTML page that has one input, which can take multi-line text and a submit button. Once the user clicks the submit button, it should show the number of characters, words and lines in the text entered using an alert message. Words are separated with a white space and lines are separated with new line character.

### Week - 4:

Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

### Week - 5: VALIDATION:

Write JavaScript to validate the following fields of the above registration page.

### Week - 6:

Write an XML file which will display the Book information which includes the following: Write a Document Type Definition (DTD) to validate the above XML file.

### Week - 7:

Install TOMCAT web server and APACHE. While installation assign port number 4040 to TOMCAT and 8080 to APACHE. Make sure that these ports are available i.e., no other process is using this port. Deploy above all pages in to tomcat web server.

**Week - 8:**

Write a program to display the HELLO WORLD message using servlet.

**Week - 9:**

Communicate two servlets using doGET and doPOST methods.

**Week - 10:**

Write a program to create cookies and retrieval using servlet.

**Week – 11 :**

a) Write a program to display the HELLO WORLD message using JSP

b) A web application that takes name and age from an HTML page. If the age is less than 18 it should send a page with “Hello <name>, you are not authorized to visit the site “message, where <name> should be replaced with the entered name. Otherwise it should send “Welcome <name> to this site “message.

**Week - 12:**

Using registration form Authenticate the user when he submits the login form using the user name and password from the database

**Week - 13:**

Create tables in the database which contain the details of items (books in our case like Book name, Price, Quantity, Amount)) of each category. Modify your catalogue page in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC

**Week - 14:**

Design a web page for bank that provide customer information by authenticating him against database

**CO-PO Mapping:**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1												
CO 2		✓		✓	✓					✓		✓
CO 3		✓		✓	✓					✓		✓
CO 4		✓		✓	✓					✓		✓