



PES UNIVERSITY

PES University, Electronic City Campus, Hosur Road, Bangalore- 560 100

Department of Computer Science & Engineering

Curriculum of CSE

Course Title:UE23CS242A: Web Technologies

Semester: III

Credits:4

Course Type: Core / Elective / Special Topic:**Core**

Experiential Learning (2025-26):

(Orange Problem) Level -2

Problem Statement:

Design and develop a single, responsive web page that demonstrates the integration of key modern web technologies. The page should showcase the use of **HTML5 multimedia elements** (audio and video), implement the **Geolocation API** to retrieve and display user location, utilize **Flexbox** for layout design, simulate **asynchronous data fetching** using **Promises** and **async/await**, and demonstrate the conversion of **XML to JSON** for structured data representation. This project aims to provide an interactive learning interface that combines functionality, responsiveness, and dynamic data handling.

HTML5 Multimedia API – Embed and control video/audio

Geolocation API – Get and display user's current location

Asynchronous Data Simulation – Using **Promises** and **async/await**

XML to JSON Conversion – Demonstrate parsing XML and converting to JSON

Web Technology Showcase

HTML5 Multimedia

0:02 / 0:10

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Geolocation API Get My Location

Error fetching location.

Simulated Async Fetch

Fetch Data

Name: WebTech Demo, Message: Data loaded successfully!

XML to JSON Conversion

Convert

```
{ "name": "John Doe", "course": "Web Technologies", "university": "PESU" }
```

Rubrics:

HTML5 Media	2 marks
Geolocation	2 marks
Axios	2 marks

JSON	2 marks
ReactJS	2 marks
Total	10 marks