

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Web Technologies (CIE 356T)

ASSIGNMENT -1

Total Marks: 20 (T1-7, T2-6, T3-7)

(Last Date of Submission: 17th Feb 2025)

Case Study: Development of an Online Student Enrollment System [CO1]

Scenario: A university wants to streamline its admission process by allowing students to enroll online instead of filling out physical forms. The university needs a **web-based system** where students can view available courses, register for their preferred programs, and submit their details through an online form. The system should also store course-related information in an **XML file**, ensuring data consistency and easy access.

Tasks:

T1: Creating the Student Enrollment Webpage (HTML & CSS)

- Develop a **homepage** that includes: University name and logo, Brief introduction about the online enrollment system, Navigation menu (Home, Courses, Registration, Contact Us)
- Implement an **HTML table** to display a list of available courses with the following details: Course Name, Course Code, Duration, Eligibility Criteria, Fees
- Use **CSS** to style the webpage : Define a structured layout with proper **padding, margins, and borders**, Apply **background colors and fonts** for readability, Format the course **table for a professional look**, Use **CSS Box Model** for spacing and alignment
- Add **hyperlinks** to navigate between different sections of the site.

T2: Developing the Online Enrollment Form (Forms & Dynamic HTML)

- Create an **HTML form** that allows students to enroll in a course : The form should contain: **Student Name** (text field), **Email** (email input), **Mobile Number** (number input), **Course Selection** (dropdown menu), **Submit Button**
- Implement **Dynamic HTML** to : Validate user input (e.g., ensuring a valid email format), Display additional input fields based on course selection, Show a confirmation message after form submission

T3: Storing Course Data Using XML

- Create an **XML file** that contains structured data for each course.
- Each course entry should include:

```
<courses> <course> <name>Web Technologies using HTML & CSS</name> <code>CIE-356T-A1</code> <duration>11 Days</duration> <eligibility>Basic Web development Knowledge</eligibility> <fees>500</fees> </course> <course> <name>Web Technologies using JSS</name> <code>CIE-356T-A2</code> <duration>40 Hrs</duration> <eligibility>Basic Java Knowledge</eligibility> <fees>1000</fees> </course> </courses>
```
- Define the structure of the XML file using **DTD or XML Schema**.
- Use **DOM/SAX Parser** to display course details dynamically on the webpage.

Submission Requirements:

1. **HTML & CSS Files** – Well-structured and styled course registration webpage.
2. **Validation Data** – Dynamic input validation for form fields.
3. **XML File with Course Data** – Structured course information in XML format.
4. **Documentation Report** – Explanation of each file, code snippets, and screenshots of the working system.