

# COURSE SYLLABUS AND COURSE REQUIREMENTS ACADEMIC YEAR 2025/2026 I. SEMESTER

<i>Course title</i>	<b>Web programming 2</b>
<i>Course Code</i>	<b>IVB475ANMI</b>
<i>Hours/Week: le/pr/lab</i>	0/0/2
<i>Credits</i>	3
<i>Degree Programme</i>	Computer Science Engineering BSc
<i>Study Mode</i>	<i>Full-time</i>
<i>Requirements</i>	Mid term exam
<i>Teaching Period</i>	2025/26/1
<i>Prerequisites</i>	
<i>Department(s)</i>	Systems and Software Technologies
<i>Course Director</i>	<i>Lénárt Anett</i>
<i>Teaching Staff</i>	<i>Laborci Gergely</i>

## COURSE DESCRIPTION

The course aims to provide students with **deep, high-level theoretical knowledge in web programming**, including the **fundamentals of modern web technologies and advanced concepts**. The emphasis of the training is on acquiring **theoretical understanding**, which later allows students to **independently transform it into practical skills** and **confidently apply industry best practices and principles in designing and developing full-featured web applications**.

## SYLLABUS

### 1. GOALS AND OBJECTIVES

The course aims to provide students with **deep, high-level theoretical knowledge in web programming**, which can later be **independently transformed into practical skills** and enables them to **confidently apply the best industry practices and principles in designing and developing web applications**.

### 2. COURSE CONTENT

#### TOPICS

#### LECTURE

Students gain **high-level theoretical knowledge of web programming**, which can later be **easily transformed into practical skills**.

## DETAILED SYLLABUS AND COURSE SCHEDULE

#### LECTURE

<i>week</i>	<b>Topic</b>
1.	Web Fundamentals and Architectures
2.	SEO, AI, and Regulations
3.	Security, Authentication, and Client-side Operations
4.	Data Formats and API Architectures
5.	Backend Environments and Runtime Models
6.	Database Integration and ORM Systems
7.	Modern Frontend Frameworks
8.	Fullstack Meta-frameworks and Rendering Strategies
9.	-
10.	CSS Architectures and Scalable Styling

11.	Progressive and Cross-Platform Web Applications
12.	workshop
13.	Midterm Exam
14.	Midterm Exam retake

### 3. ASSESSMENT AND EVALUATION

#### ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

**Method for monitoring attendance** (e.g.: attendance sheet / online test/ register, etc.)

attendance sheet or online test

#### ASSESSMENT

Homeworks, written test

#### **Course resulting in mid-term grade (PTE TVSz 40§(3))**

Successful completion of the semester requires the **MANDATORY submission of all homework assignments regularly announced on the Microsoft Teams platform**. Students generally have **one week from the assignment announcement** to complete the tasks. During the semester, each student may **submit late up to three times**; beyond this, all assignments must be **submitted by the deadline**. If a homework assignment requires programming, it must be submitted as a **GitHub link via Teams**. It is important that if the instructor deems any submitted work **professionally inadequate, correction and resubmission is MANDATORY** for successful completion of the semester.

Every student is **MANDATORY to deliver at least one professional presentation at the end of the semester**, which counts for **10% of the final grade**. Students may also deliver **up to two additional presentations**, each counting an **extra 10%**, so that presentations can contribute **up to 30% of the total grade**. The topic of the presentation is **jointly selected** from the announced subject areas. The presentation must be prepared as a **public Google Slides document** and delivered at the **pre-agreed time**.

The end-of-semester **written test is MANDATORY FOR ALL STUDENTS** and accounts for **80% of the final grade**. Combined, presentations and the written test can reach a **maximum total score of 110%**, allowing students to demonstrate **extra achievement**.

#### **Mid-term assessments, performance evaluation and their weighting as a pre-requisite for taking the final exam**

Type	Weighting as a proportion of the pre-requisite for taking the exam
Midterm exam	80%
Presentation	20%

**Grade calculation as a percentage** based on the aggregate performance according to the following table

Course grade	Performance in %
excellent (5)	85 % ...
good (4)	70 % ... 85 %
satisfactory (3)	55 % ... 70 %
pass (2)	40 % ... 55 %
fail (1)	below 40 %

The lower limit given at each grade belongs to that grade.