

COURSE SYLLABUS AND COURSE REQUIREMENTS ACADEMIC YEAR 2024/2025 I. SEMESTER

Course title	Web programming 2
Course Code	IVB475ANMI
Hours/Week: le/pr/lab	0/0/2
Credits	3
Degree Programme	Computer Science Engineering BSc
Study Mode	Full-time
Requirements	Mid term exam
Teaching Period	2024/25/1
Prerequisites	
Department(s)	Systems and Software Technologies
Course Director	Lénárt Anett
Teaching Staff	Laborci Gergely

COURSE DESCRIPTION

The aim of the course is to provide students with a deeper understanding of web programming, including both the foundational concepts and advanced applications of modern web technologies. Throughout the course, emphasis is placed on learning one or more frameworks, enabling students to acquire practical skills in designing and developing comprehensive web applications. The theoretical and practical knowledge gained during the course equips students with the confidence to apply industry best practices and technologies effectively.

SYLLABUS

1. GOALS AND OBJECTIVES

The goal of the course is to provide students with a deeper understanding of web programming and to enable them to acquire the skills necessary to comprehensively develop web applications by learning one or more frameworks.

2. COURSE CONTENT

TOPICS

LECTURE	1. Fullstack application development with the use of modern framework(s).
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DETAILED SYLLABUS AND COURSE SCHEDULE

LECTURE	
week	Topic
1.	HTTP Basics
2.	Web architectures
3.	Authentication techniques on web
4.	DEFINING PROJECT TASK
5.	SEO
6.	PWA, CapacitorJS
7.	PROJECT CONSULTATION
8.	APIs, REST, GraphQL
9.	GDPR
10.	Communication and Data Exchange Formats
11.	-
12.	History and Future of Web Development

13.	Midterm Exam, Project Presentations
14.	Midterm Exam retake, Project Presentations

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

ASSESSMENT

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

During the semester, the task is to complete a project. The completion of the project is a fundamental requirement for passing the course. The evaluation is based on a midterm exam. If the result of the midterm exam does not reach at least 70% (grade 4), the student must orally defend their submitted project. In the case of a successful oral defense, the student can receive the grade achieved on the midterm exam. An unsuccessful defense will be considered as a non-submitted project.

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	100%
Project	0%

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.