

## COURSE SYLLABUS AND COURSE REQUIREMENTS

ACADEMIC YEAR 2022 SEMESTER 2022/23/1

<i>Course title</i>	<i>Programming 5.</i>
<i>Course Code</i>	IVB338ANMI
<i>Hours/Week: le/pr/lab</i>	1/0/2
<i>Credits</i>	4
<i>Degree Programme</i>	Computer Science Engineering BSc
<i>Study Mode</i>	Fulltime
<i>Requirements</i>	--
<i>Teaching Period</i>	2022/23/1
<i>Prerequisites</i>	-
<i>Department(s)</i>	Department of Systems and Software Technologies
<i>Course Director</i>	Gergely Laborci
<i>Teaching Staff</i>	Gergely Laborci

## COURSE DESCRIPTION

The subject summarizes the knowledge already learned by students and helps them to master it at higher levels. During the semester, students will work on a project work of their choice, which they will have to present at different intervals. During the lectures, the materials and experiences already taken in other courses come to the fore again, touching on most of the topics of the final exam. During the semester, students will become familiar with the Atomino Backend and Svelte Frontend frameworks. They are optional and are only used as examples as usable developer tools.

## SYLLABUS

### 1. GOALS AND OBJECTIVES

The aim of the education is for the student to revive the knowledge they has already experienced and to be able to apply them through their own project work. During the semester, the students will encounter questions and problems that can help them see their own diploma work from a different perspective and help them prepare for the final exam. Another goal of the subject is to encourage and strengthen active individual work and develop problem-solving skills.

### 2. COURSE CONTENT

#### TOPICS

#### LECTURE

1. *Databases and database design models*
2. *Version control*
3. *Layered application development*
4. *Web services*
5. *Object Oriented Programming*
6. *Server side applications*
7. *Development models*
8. *Frameworks and framework usages*
9. *Access control and security*

#### LABORATORY PRACTICE

1. *Project work*

# DETAILED SYLLABUS AND COURSE SCHEDULE

ACADEMIC HOLIDAYS INCLUDED

<b>week</b>	<b>Topic</b>
1.	-
2.	Course description
3.	Databases and database design models
4.	Version control
5.	Layered application development
6.	Web services
7.	Object Oriented Programming
8.	Server side applications
9.	-
10.	Development models
11.	Frameworks and framework usages
12.	Access control and security
13.	Consultation
14.	Project presentation 1.
15.	Project presentation 2.

## 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**

Attendance sheet

### ASSESSMENT

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### **Course-unit with final examination**

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

<b>Type</b>	<b>Assessment</b>	<b>Weighting as a proportion of the pre-requisite for taking the exam</b>
Personal Project work	100 point	100%

### **Requirements for the end-of-semester signature**

At least 40% result on Individual Project work.

### **Re-takes for the end-of-semester signature** (PTE TVSz 50§(2))

Replacement option during the first week of the exam period.

**Type of examination:** Oral

**The exam is successful if the result is minimum 40 %.**

**Calculation of the grade** (TVSz 47§ (3))

The mid-term performance accounts for 50 %, the performance at the exam accounts for 50 % in the calculation of the final grade.

**Calculation of the final grade based on aggregate performance in percentage.**

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.

## **4. SPECIFIED LITERATURE**

### **COMPULSORY READING AND AVAILABILITY**

[1.] Notes and syllabus from previous semesters