COURSE SYLLABUS AND COURSE REQUIREMENTS
ACADEMIC YEAR 2022/23 SEMESTER 2

Course title	*Web programming 1.*
Course Code	IVB333ANMI
Hours/Week: le/pr/lab	0/0/2
Credits	2
Degree Programme	Computer Science Engineering
Study Mode	full time course
Requirements	mid-term mark
Teaching Period	2022/2023-2
Prerequisites	IVB332ANMI, Programming 1.
Department(s)	System- and Software Technology
Course Director	*Levente Szabo*
Teaching Staff	*Anett Lenart*

COURSE DESCRIPTION

A short description of the course (max. 10 sentences).
Neptun: Instruction/Subjects/Subject Details/Basic data/Subject description

The main objective of the course module is to provide students with the ability to create a client-side web application at the end of the course, but also to familiarize themselves with server-side database and user and administration web pages. These web applications are relevant in the XXI. century in market life.

SYLLABUS

Neptun: Instruction/Subjects/Subject Details/Syllabus

1. GOALS AND OBJECTIVES

Goals, student learning outcome.
Neptun: Instruction/Subjects/Subject Details/Syllabus/Goal of Instruction

The subject module provides general knowledge in the design and create of websites and other web applications. We describe the functions, tasks that can be implemented by HTML, CSS and JavaScript programs.
We provide students with pre-made sample assignments.
During the practical training, students will be prepared to complete client-side tasks in developing a web site and learn the basics of server-side web programming.

2. COURSE CONTENT

Neptun: Instruction/Subjects/Subject Details/Syllabus/Subject content

	TOPICS
LABORATORY PRACTICE	1. Description of requirements system, operation of the web 2. HTML - Syntax, tag anatomy, text-level elements 3. HTML – Grouping elements, embedded elements, structural division of a web page 4. HTML - Form creation 5. CSS – Style sheets, style classes, selectors, inheritance, box model 6. CSS – Structural design of a website using divs and grids, responsiveness 7. HTML5, CSS3: The technique and ergonomics of web page creation 8. JavaScript - language basics 9. JavaScript - Document Object Model (DOM), event-driven programming. Forms. 10. JavaScript - Ajax, communication with the server.

DETAILED SYLLABUS AND COURSE SCHEDULE

ACADEMIC HOLIDAYS INCLUDED

PRACTICE, LABORATORY PRACTICE

week	**Topic**	**Compulsory reading; page number (from … to …)**	**Required tasks (assignments, tests, etc.)**	**Completion date, due date**
1.	Introduction. Description of requirements. How the web works, client-server model, http, url.	[1] Webprogramming1_1 folder		
2.	HTML basics: Syntax, tag anatomy.	[1] Webprogramming1_2 folder [2] from https://www.w3schools.com/html/default.asp to https://www.w3schools.com/html/html_lists.asp		
3.	HTML: Image insertion, navigation, table creation. Structural division of a web page.	[1] Webprogramming1_3 folder [2] from https://www.w3schools.com/html/html_links.asp to https://www.w3schools.com/html/html_lists.asp https://www.w3schools.com/html/html5_semantic_elements.asp		
4.	HTML: Forms.	[1] Webprogramming1_4 folder [2] https://www.w3schools.com/html/html_forms.asp		
5.	CSS: Selectors, display types, box model, colors.	[1] Webprogramming1_5 folder [2] from https://www.w3schools.com/css/css_intro.asp to https://www.w3schools.com/css/css_intro.asp		
6.	CSS: Website structure design using divs and grids. Responsive websites.	[1] Webprogramming1_6 folder [2]		

		from https://www.w3schools.com/css/css_rwd_intro.asp to https://www.w3schools.com/css/css_rwd_grid.asp [2] from https://www.w3schools.com/css/css_grid.asp to https://www.w3schools.com/css/css_grid_item.asp		
7.	HTML, CSS practice: Creating a complex website.	[1] Webprogramming1_7 folder [2] from https://www.w3schools.com/css/css_templates.asp to https://www.w3schools.com/css/css_templates.asp		
8.	JavaScript: Basics, reading and writing data.	[1] Webprogramming1_8 folder		
9.	Spring break.			
10.	JavaScript: Functions, objects.	[1] Webprogramming1_9 folder		
11.	JavaScript: Document Object Model (DOM).	[1] Webprogramming1_10 folder		
12.	JavaScript: Document Object Model (DOM), event-driven programming. Forms. JavaScript - Ajax, communication with the server.	[1] Webprogramming1_10 folder	Home assignment: developing a website (project work).	Week 13 Friday 11:59 p.m
13.	Test.			
14.	Presentation of the project work (website).			
15.	Re-take test. Re-take: Presentation of the project work (website).			

3. ASSESSMENT AND EVALUATION

(Neptun: Instruction/Subjects/Subject Details/Syllabus/Examination and Evaluation System)

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 at 70% of classes is mandatory. The participation rate does not affect the grade, but an absence of more than 30% results in the subject being refused.
Attendance is checked on the basis of an attendance sheet.

ASSESSMENT

Cells of the appropriate type of requirement is to be filled out (course-units resulting in mid-term grade or examination). Cells of the other type can be deleted.

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

It is a requirement to prepare the home assignment, then submit it by the given deadline and write the test at the given time. The test will be held in the 13th week.
The midterm mark is determined by the average of the two grades.
If the student is in doubt after the computer test and the project work, then the result of the computer test is more dominant than the project work.

Mid-term assessments, performance evaluation and their ratio in the final grade *(The samples in the table to be deleted.)*

Type	Assessment	Ratio in the final grade
Test		*51 %*
Home assignment		*49 %*

Opportunity and procedure for re-takes (PTE TVSz 47§(4))

The specific regulations for improving grades and resitting tests must be read and applied according to the general Code of Studies and Examinations. E.g.: all tests and assessment tasks can be repeated/improved at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.

The test can be corrected or replaced once in the week 15.
The presentation of the repairing will be at week 15.

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.

4. SPECIFIED LITERATURE

In order of relevance. (In Neptun ES: Instruction/Subject/Subject details/Syllabus/Literature)

COMPULSORY READING AND AVAILABILITY

[1] Lesson aids, presentations, examples
Availability: on the Teams interface

[2] W3Schools Online Web Tutorials
Availability: https://www.w3schools.com/
[3] HTML (5) + CSS (3) Editing standards-compliant static web pages

RECOMMENDED LITERATURE AND AVAILABILITY

[4] MDN Web docs
Availability: https://developer.mozilla.org/hu/