Óbuda University John von Neumann Faculty of Informatics	Institute of Software Engineering

Name and code: Web development in Java (NSXJW1EBNE) **Credits:** 3

Computer Science BSc *Daytime 2020/21 year I. semester*

Subject lecturers: Dr. Hajnal Ákos, Simon-Nagy Gabriella

Prerequisites: (with code)				
Weekly hours:	Lecture: 0	Seminar: 0	Lab. hours: 2	Consultation: 0
Way of assessment:	Midyear grade			

Course description

Goal: Familiarize students with advanced topics of Java programming

Course description: Webprogramming in Java (Classes, exceptions, collections, client-server communication, serialization, servlets, forms, session handling, JSP)

Lecture schedule

Education week	Topic
1	Java syntax, differences from C#
2	Classes, objects, interfaces, JavaBean
3	Exception handling, collections
4	Stream API, unit tests
5	Java streams, filters
6	TCP-IP client-server connection, serialization
7	HTTP protocol, web application basics
8	Forms, servlet, JSP
9	Java session handling
10	Request dispatching, scopes
11	Spring webapps
12	Test
13	Re-test

Midterm requirements

Attendance on the practices is obligatory. If courses are held in Microsoft Teams, attendace means being logged into the meeting from beginning to end.

The students will write one mid-semester test (week 13). If in-person testing is not possible, students will upload their test solutions in Moodle. Writing the mid-semester test is obligatory. If a student doesn't write or doesn't pass the mid-semester test, a re-test is possible on the last week. A re-test is also possible if a student wants to re-write the test. In this case, it is always the re-test grade is taken into account.

If a student doesn't have a passed test at the end of the regular semester, a last re-test is possible in the exam season.

If practices are held in Teams, students also have to complete 6 homeworks (given two weeks apart). Solutions must be uploaded in Moodle by the specified deadline.

Midterm Test Scheduling

Education week	Topic
13	MIDTERM
14	RE-TEST if necessary

Midterm grade calculation methods

Mid-semester grade can only be given to a student who passed the test and who completed at least 4 of the 6 homeworks (in case of Teams lessons). The grade will be the grade of the test minus the number of missed/failed homeworks.

"Signature refused" entry will be given to any student who misses more than 30% of the practice sessions. (TVSZ 23.§).

"Failed" grade will be given to any student who doesn't have successful practice test or completed less than 4 homeworks (in case of Teams lessons).

Method of replacement

In the exam season, a last re-test is possible if the student failed/missed the mid-semester test and the last week re-test.

If the student did not complete at least 4 homeworks until the 14th week deadline then an extra project must be solved and uploaded by the specified deadline.

Type of exam
Exam grade calculation methods
References
Obligatory:
Lab presentations, practice materials Materials published in Moodle
Recommended:
Herbert Schildt: Java: The Complete Reference, Eleventh Edition, McGraw-Hill, 2018
Others: