

COURSE SYLLABUS AND COURSE REQUIREMENTS

2022-2023/SPRING

<i>Course title</i>	<i>Computer Aided Structural Design 3. (Nemetschek)</i>
<i>Course Code</i>	MSB376AN
<i>Hours/Week: le/pr/lab</i>	0/0/2
<i>Credits</i>	2
<i>Degree Programme</i>	Civil Engineering (Bsc)
<i>Study Mode (training schedule)</i>	Full-time training
<i>Requirements</i>	Mid-semester grade
<i>Teaching Period</i>	6. semester
<i>Prerequisites</i>	-
<i>Department(s)</i>	Civil Engineering Department
<i>Course Director</i>	Kovácsné Dr. Vanya Csilla
<i>Teaching Staff</i>	Dávid Mansoor SADRINIA

COURSE DESCRIPTION

Neptun: Instruction/Subjects/Subject Details/Basic data/Subject description

The aim of the course is to provide students with an advanced understanding of Allplan's structural design software.

SYLLABUS

1. GOALS AND OBJECTIVES

With the help of Allplan the student can acquire the skills to make 2D, 3D models and structural drawings mainly for reinforced concrete building. In addition, students will also learn the basic methods of reinforcement for beams, columns, slabs and walls. During the course there will be a written examination based on theoretical questions and an assignment that covers the semesters material.

2. COURSE CONTENT

TOPICS

LABORATORY PRACTICE	<i>Allplan interface, Allmenu</i> <i>2D drawings, texts, measurements</i> <i>3D architect modules, engineering modules</i> <i>Formwork plan formal requirements</i> <i>Reinforcement plan formal requirements</i> <i>Plan documentation.</i>
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DETAILED SYLLABUS AND COURSE SCHEDULE

LABORATORY PRACTICE

<i>week</i>	Topic	Compulsory reading; page number	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	General course description	...	...	...
2.	Allplan interface and Allmenu			
3.	3D modelling I. (Grid, foundation)		Assignment review	
4.	3D modelling II. (Columns, beams, slabs)			
5.	3D modelling III. (Multi story building)			
6.	Reinforcement views			
7.	Texts, Measurements, 2D construction			
8.	<i>Formwork plan formal requirements</i>		1 st assignment submission	
9.	Spring BREAK, all classes are cancelled			

10.	NATIONAL HOLIDAY, all classes are cancelled			
11.	Reinforcement plans – Beams, Columns			
12.	Reinforcement plans – Slabs, Walls			
13.	NATIONAL HOLIDAY, all classes are cancelled			
14.	Plan documentation			
15.	Consultation		2 nd assignment submission	

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 list

ASSESSMENT

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

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
Attendance list		10%
Assignment (3D modell)		50%
Assignment (Plans)		40%
Each assignment part should have at least 40% (20% ration in final grade for 3D modell, 16% for Plans)		

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.

Calculation of the final grade based on aggregate performance in 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.] Recorded webinars: <https://www.allplan.com/en/recorded-webinars/all-recorded-webinars/>
- [2.] Tutorials: <https://www.allplan.com/en/cad-tutorials/allplan-2017-tutorials/>
- [3.] Building Information Modeling: <https://www.allplan.com/en/bim/bim-and-allplan/>

RECOMMENDED LITERATURE AND AVAILABILITY

- [4.] <https://help.allplan.com/Allplan/2022-0/1033/Allplan/index.htm#5464.htm>

