

COURSE SYLLABUS AND COURSE REQUIREMENTS

2022-2023/SPRING

<i>Course title</i>	<i>Computer aided structural design 1. (Tekla)</i>
<i>Course Code</i>	MSB374ANEP
<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
<i>Requirements</i>	Mid-semester grade
<i>Teaching Period</i>	6
<i>Prerequisites</i>	-
<i>Department(s)</i>	Department of Civil Engineering
<i>Course Director</i>	Kovácsné Dr. Vanya Csilla
<i>Teaching Staff</i>	Antal Roflics

COURSE DESCRIPTION

During the course, students will get to know the basic use of Tekla Structures® software and will be able to create and edit 3D BIM models, create technical documentation (pdf, dwg) based on the model and prepare reports.

SYLLABUS

1. GOALS AND OBJECTIVES

Upon successful completion of this course, the student will be able to know and understand:

- How to solve modelling problems independently.
- The basic steps of project design.
- Basic use Tekla Structures® software.
- Basic technical drawings.

2. COURSE CONTENT

PRACTICE, LABORATORY PRACTICE

<i>week</i>	Topic	Compulsory reading; page number	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Introduction, general information,	[1.]		
2.	Introduction to UI	[1.]		
3.	Revision, creating parts	[1.]		
4.	Revision, creating assemblies with bolts or welding	[1.]		
5.	Revision, working with components	[1.]		
6.	Revision, project-work	[1.]		
7.	Revision, project management, filtering	[1.]		
8.	Revision, collaboration with other designer, checking the model, numbering	[1.]		
9.	Spring BREAK, all classes are cancelled	[1.]		
10.	Pollack EXPO, all classes are cancelled	[1.]		
11.	Revision, creating drawings	[1.]		
12.	Revision, documentation	[1.]		
13.	Revision, exam practise	[1.]		
14.	Exam-task (A simple model with documentation)		Exam-task	
15.	Correction, questions, summary of course, Retake exam-task		Retake exam-task	

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

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

Mid-term assessments, performance evaluation and their ratio in the final grade

Type	Assessment	Ratio in the final grade
Exam-task (Simple model with documentation)	Max 100 points	100 %

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

PTE Tvsz according to relevant rules

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

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

100 % 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.] Tekla Structures® help