

ÓBUDA UNIVERSITY						
Rejtő Sándor Faculty of Light Industry and Environmental Engineering			Faculty	Media Technology and Light Industry		Institute
Hungarian title of the course:		CAD – 3D modellezés Solid Edge programmal			Neptun code:	RTXCC2BBNE
English title of the course:		CAD – 3D modeling with Solid Edge			Credit:	2
Type (compulsory/optional:)		optional	Education Type	Full-time	Semester :	3-7
Study field:		Environmental engineering, Light Industry engineering, Industrial Design Engineering				
Lecturer:	Németh Róbert DLA					
Required preliminary knowledge:		-				
Weekly teaching hours:	Lecture:	0	Practical work:	0	Laboratory work:	3
Exam type:		é	Language of course:	English	In timetable:	Thursday: 09:50-12:25
CURRICULUM						
<b>Abstract:</b>						
During the semester at the information technology laboratories students will get acquainted with the Solid Edge program package and various possibilities of 3D modeling.						
Detailed schedule of the course:						
<b>Topics of exercises:</b>						
Educational week	Date	Description				
1.	02. 10.	Review of the curricula Introduction of the use of Solid Edge. Usage of documents, (type of documents, files, designing environment) User interface (opener screen, designing environment).				
2.	02. 17.	The solid modeling, 2D modelling, Principle of ordered and synchronous modelling. Sketching. Types of constraints and its usage (geometrical relates, dimensions).				
3.	02. 24.	Ordered modeling Extrude/Cut Revolve/Revolved cut Round/Chamfer				
4.	03. 03.	Ordered modelling Surface curves, projection Boolean operations Modification of dimensions with help of variables, variable table				
5.	03. 10.	Ordered modelling Drafting				
6.	03. 17.	Assembly design „Mate”, „Planar and axial align” constraints „Connect”, „Cam” constraints				
7.	03. 24.	Assembly design				

		Assembly commands, explode view Render of view Moving of components
8.	03. 31.	Modelling exercises
9.	04. 07.	Modelling exercises
10.	04. 14.	Modelling exercises
11.	04. 21.	Modelling exercises
12.	04. 28.	Rendering with Keyshot
13.	05. 05.	Rendering with Keyshot
14.	05. 12.	Presentation of the laboratory work
<b>Requirements</b>		
<i>Attendance at lectures:</i>		
Laboratory work is compulsory. The rules of education and exam directory (TVSZ) are according to the guidelines.		
<i>Exams and tests (types, data)</i>		
7.	Control of laboratory work	
13.	Control of semester work	
<i>Requirements for qualification:</i>		
It is obligatory to finish every classwork we start in the classroom and also the home projects.		
<i>Type of exam (written, oral, tests etc.) and the method of assessment:</i>		
<b>Literature</b>		
<i>Compulsory:</i>		
<i>Recommended:</i>	Prof. Sham Tickoo: Solid Edge 2020 for Designers, CADCIM Technologies, 2020	
<i>Others:</i>		
<b>Quality Management</b>		
The structure of the course is harmonized with other lecturers from different universities. Assessment of students is carried out at every lecture, and at the end of semester. The ppt files are continuously renewed according to the new literature data.		