

ÓBUDA UNIVERSITY Bánki Donát, Faculty of Mechanical and Safety Engineering		Institute of Mechatronics and Vehicle Engineering			
Name and code of the course: CAD systems BMXSRE3BNE Credits : 4 2021/2022 Fall					
Courses: Mechatrical Engineering BSc					
Responsible Lecturer: Ferenc Oláh		Lecturers:			
Pre-Courses: Machine Design II. registration					
Hours/weeks		Lectures: 1	Practices: 0	Laboratory: 2	
Consultation: 0					
Method of Controls		Midterm mark			
Teaching material					
Aims: The aim of the course is to provide students with a general overview and practice of the form feature based parametric design in the Inventor CAD system.					
Schedule					
Weeks	Topics				
1.	<i>Introduction. Basics of the Inventor CAD system, sketching, using constraints</i>				
2.	<i>Extruding and revolving. Difference between the basic bodies.</i>				
3.	<i>Practice</i>				
4.	<i>Introduction to the assembly features. Constraints between solid bodies and parts.</i>				
5.	<i>New part in the assembly! Creating parts in the assembly without drawings.</i>				
6.	<i>Frame generator and analysis</i>				
7.	<i>Drawings. Basics of the inventor drawings with one part.</i>				
8.	<i>BOM. Inventor drawings with more parts in it, with assemblies. Creating BOM list.</i>				
9.	<i>Embossing, welding.</i>				
10.	<i>Shape based features, loft, draft, shell, conical parts.</i>				
11.	<i>Practice</i>				
12.	<i>Practice</i>				
13.	Test				
14.	Retake				
Validity of the semester and method of creating the semester mark:					
<i>The semester can be valid with as minimum as 50% of the test:</i>					
50% - 65%		<i>Satisfactory</i>			
66% - 80%		<i>Medium</i>			
81% - 90%		<i>Good</i>			
91% - 100%		<i>Excellent</i>			
Classes and tests will be held in person. Any change due to the pandemic situation will be announced in the Moodle course.					
All matters which are not covered in this document, the Study and Examination Rules and the provisions of the Study Regulations, valid at Óbuda University, prevails.					
Literature : Moodle electronic materials					

Budapest, 2021-08-29

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Responsible Lecturer