

ÓBUDA UNIVERSITY		Department of Machine Construction and Safety Techniques		
Bánki Donát, Faculty of Mechanical and Safety Engineering				
Name and code of the course: Computer Systems for Product Engineering (BGBRST3NEC) Credits : 2				
2015/2016 Fall				
Courses: Mechatronical Engineering				
Responsible Lecturer:		György Gyurecz	Lecturers: György Gyurecz	
Pre-Courses:		Géprajz, Gépelemek		
Hours/weeks		Lectures:1	Practicies:3	Laboratory: 0
Method of Controls (s,v,f):		test		
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.				
SYLLABUS				
Weeks				
1.	<i>Introduction. Creating a Project.</i>			
2.	<i>Create a Sketch, Constraints, Extruding, Editing Profiles, Work Planes.</i>			
3.	<i>Solid Bodies, Centerlines, Revolve a Feature, Projecting Geometry, Extruding to a Plane.</i>			
4.	<i>Mirroring Features, Circular Feature Array, Rectangular Feature Array.</i>			
5.	<i>Creating Holes, Placing Holes, Creating Hole Patterns, Threaded Holes.</i>			
6.	<i>Using the Shell Command, 2D Splines, Constraining Splines.</i>			
7.	<i>Sweep, Sweep Path and Guide Rail, Sweep Path and Guide Surface.</i>			
8.	<i>Introduction to 3D Sketches, 3D Splines and Coils.</i>			
9.	<i>Lofts, Loft Conditions, Lofts with Rails, Rails on Cylindrical Lofts.</i>			
10.	<i>Parameters, Linking Excel Spreadsheets.</i>			
11.	<i>Importing Points, The Bend Part Command, Bending Conical and Loft Parts</i>			
12.	<i>Assemblies. Creating and Editing Derived Parts, Degrees of Freedom, Driving Constraints.</i>			
13.	<i>Drawing Views, Drawing Projects, Bill of Materials, Parts Lists, Editing Parts List, Balloons.</i>			
14.	<i>TEST</i>			
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% - 60%	<i>failed</i>		
	60% - 70%	<i>satisfactory</i>		
	70% - 80%	<i>medium</i>		
	80% - 90%	<i>good</i>		
	90% - 100%	<i>excellent</i>		
Literature:				
- Lecture notes				
- G. Renner: CAD technologies (BME, 2007)				

Budapest, 2015-06-04

György Gyurecz

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Responsible Lecturer