

Subject card

Subject name and code	Computer design of machines (3D), PG_00005049								
Field of study	Mechatronics, Mechatronics								
Date of commencement of	October 2020	Academic year of			2022/2023				
studies	October 2020		realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Manuf Technology	Production Engineering -> Faculty of Mechanical Engineering and Ship							
Name and surname	Subject supervisor		dr inż. Piotr Sender						
of lecturer (lecturers)	Teachers		dr inż. Piotr Sender						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8139								
Learning activity and number of study hours	Learning activity Participation in d classes included plan			Participation in consultation hours		Self-study		SUM	
	Number of study 30 hours			0.0		0.0		30	
Subject objectives	Acquainting with 3D modeling techniques using CAD systems								
Learning outcomes	Course out	Subject outcome Method of verification							
	K6_W10		The student has a basic knowledge of modeling and device operation animation application			[SW3] Assessment of knowledge contained in written work and projects			
	K6_W11		The student applies the practical use of CAD systems for 3D modeling of machine parts and assemblies			[SW3] Assessment of knowledge contained in written work and projects			
	K6_U05					[SU4] Assessment of ability to use methods and tools			
Subject contents	Types of models created in CAD systems. Diagram of the procedure during part modeling. The rules of assembling parts into subassemblies, assemblies and ready devices and machines. Creating animations. Getting to know welding modules, shooting models, etc.								
Prerequisites and co-requisites	The ability to read technical documentation. Possessing knowledge in the field of technical drawing, standards and basics of machine construction								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	3D modeling of parts - to be done		60.0%			100.0%			
Recommended reading	Basic literature		Jaskulski A.: Autodesk Inventor 2009PL/2009+, metodyka projektowania.						
	PWN. Warszawa 2009.								

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	Supplementary literature	Selected online journal articles:				
		1. Computer-Aided Design				
		2. Journal of Manufacturing Systems				
		3. Computers in Industry				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Zasadnicze różnice pomiędzy modelem powierzchniowym a bryłowym. Wykonać model 3D wałka wg rysunku.					
Work placement	Not applicable					

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