

## Subject card

Subject name and code	Computer software in designing for mechanical and medical engineering, PG_00039384								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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	Zakład Konstrukcji Maszyn i Inzynierii Medycznej -> Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers			1	1		1		
Lesson types and methods of instruction	Lesson type	Lecture 0.0	Tutorial 0.0	Laboratory 30.0		Project Ser 0.0 0.0		SUM 30	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Additional information: in the event of a pandemic - via ZOOM								
Learning activity and number of study hours	Learning activity Participation in classes include plan			l ·		Self-study SUM		SUM	
	Number of study 30 hours		3.0			17.0		50	
Subject objectives	The use of CAD programs in engineering analysis and design.								
Learning outcomes	Course outcome		Subj		Method of verification				
	K6_U03		The student uses CAD software, which use engineering algorithms of varying degrees ofsophistication.			[SU4] Assessment of ability to use methods and tools			
	K6_W09		The student uses CAD program tools that use the finite element method.			[SW1] Assessment of factual knowledge			
	K6_U05		problems, the result of which			[SU3] Assessment of ability to use knowledge gained from the subject			
	K6_U08		The student solves partially open problems, the result of which depends on the taken assumptions and the software tools used by the student.			[SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Acquainting with CAD software: Inventor - in the scope of creating 2D and 3D technical documentation, strength analysis and searching for natural frequencies and forms of natural vibrations. Familiarization with the possibility of using predefined machine elements from the library of the programme; AutoCAD - in the field of creating 2D technical documentation.								
	The ability to analyse of simple engineering problems using CAD software.								
Prerequisites and co-requisites	Engineering graphics, Mechanics, Strength of materials, Mechanical design and basic skills of using Inventor programme.								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Test of the qualifying I	50.0%	50.0%			
	Test of the qualifying II	50.0%	50.0%			
Recommended reading	Basic literature Help system of Inventor and AutoCAD programme.					
	Supplementary literature	Any literature concerning Inventor and AutoCAD programme.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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