



Subject card

Subject name and code	Designing mobile robots, PG_00061796						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Katedra Elektrotechniki i Inżynierii Wysokich Napięć -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Paweł Kowalski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	0.0	0.0	20.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	Introduction to the process of designing mobile robots.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	<ul style="list-style-type: none">• Introduction to FreeCAD.• Creating a 3D model.• Preparing the model for 3D printing.• Basics of 3D printing.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Lecture assignment		50.0%		40.0%		
	Project		50.0%		60.0%		
Recommended reading	Basic literature		freeCAD documentation, https://wiki.freecad.org/Main_Page				
	Supplementary literature		Ultimaker 3D Printing Academy, https://support.makerbot.com/s/topic/0TO5b000000Q4usGAC/ultimaker-3d-printing-academy				
	eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Development of a mobile robot in 3D printing technology.						
Work placement	Not applicable						