

表 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Electronic Circuit Design, PG_00038321								
Field of study	Automation, Robotics and Control Systems								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/	2022/2023		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the	at the university		
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Mecha	Department of Mechatronics and High Voltage Engineering -> Faculty of Electrical and Control Engineer					I Engineering		
Name and surname	Subject supervisor	prof. dr hab. inż. Grzegorz Redlarski							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	20.0	0.0	10.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan					Self-study SUM			
	Number of study 30 hours			7.0		63.0		100	
Subject objectives	Acquiring knowledge and skills to independently design of simple electronic circuits and Printed Circuit Boards.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K7_K02					[SK1] Assessment of group work skills			
	K7_U11		and tools, can design a basic electronic circuits and PCBs.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	K7_W12		A student has basic knowledge			[SW2] Assessment of knowledge contained in presentation			
Subject contents	Knowledge of the basic principles of design of electronic circuits. Ability to create PCB boards Implementation of the project tasks based on advanced and professional software Altium Designer.								
Prerequisites and co-requisites	Basic knowledge of robotics and mechatronics.								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
			70.0%			70.0%			
			100.0%			30.0%			

Recommended reading	Basic literature	 Ed. Blackwell, G.R.: "The Electronic Packaging Handbook", Boca Raton, CRC Press LLC, 2000. Horowitz P. Hill W.: 'The Art of Electronics" Third Edition. Cambridge University Press. 			
	Supplementary literature	1. Altium Designer Guide.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	eResources addresses Adresy na platformie eNauczanie: 1. The rules connected with creation of PCB for analog circuits 2. The rules connected with creation of PCB for digital circuits 3. The rules connected with creation of PCB form microprocessor circuits 4. The rules connected with testing process during PCB's computer design				
Work placement	Not applicable				