

Subject card

Outline to a succession of a succession	Designing of Brintod Floctronic Circuite, BC, 00052421							
Subject name and code	Designing of Printed Electronic Circuits, PG_00053421							
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	Department of Controlled Electric Drives -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor	dr inż. Krzysztof Blecharz						
of lecturer (lecturers)	Teachers		<u> </u>					
Lesson types and methods of instruction	Lesson type	Lecture			Seminar	SUM		
	Number of study hours	15.0	0.0	15.0	0.0	0.0		30
	E-learning hours included: 0.0						OLINA.	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30		5.0	5.0			75
Subject objectives	The aim of the course is to provide students with knowledge of the design and construction of the Printed Circiut Board (PCB) and to acquire skills for students to independently design and make simple electronic circuits and printed circuit boards.							
Learning outcomes	Course out	come	Subject outcome			Method of verification		
Subject contents	Independent design of the electronic system with complete technical documentation of printed circuit board. Design, manufacture, and commission an electronic device.							
Prerequisites and co-requisites	Basic knowledge of electronics and power electronics is required.							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Lecture		50.0%		20.0%			
	Laboratory					80.0%		
Recommended reading	Basic literature		Clyde F. Coombs; Happy Holden:Printed Circuits Handbook, Seventh Edition, 2016, McGraw-Hill Education					
	Supplementary literature		 Felba J: Montaż w elektronice, Oficyna Wydawnicza Politechniki Wrocławskiej, 2010 D. Brooks:Signal Integrity Issues and Printed Circuit Board Design, Prentice Hall, 2003. The hitchhiker's guide to PCB design: things you wish you knew yesterday and will need to know tomorrow. Rochester, NY: EMA Design Automation, Inc. 					
	eResources addresse	Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Development of a project, execution, and commissioning of an electronic device. Students can choose from a list of proposals for electronic circuits. It is possible to implement individual designs of electronic systems solutions in consultation with the teacher.							
	Stages of creating printed circuit designs.							
	The most common design mistakes.							
Work placement	Not applicable							

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