

Subject card

Subject name and code	Geometry and Graphics for Engineers, PG_00053409								
Field of study	Electrical Engineering								
Date of commencement of	October 2022		Academic year of			2022/2023			
studies	000001 2022		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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Mechatronics and High Voltage Engineering -> Faculty of Electrical and Control Engineering						Engineering		
Name and surname	Subject supervisor Teachers		dr inż. Wiktor Waszkowiak						
of lecturer (lecturers)			dr inż. Wiktor Waszkowiak						
			dr inż. Piotr Tojza						
			dr inż. Łukasz Doliński						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		5.0				60	
Subject objectives	The ability to create technical documentation, including electrical documentation, with the use of CAD software supporting design								
Learning outcomes	Course out	Subject outcome			Method of verification				
	K6_W11		The student describes the principles of orthographic projection and explains the methods of presenting views and cross sections of machine elements.			[SW1] Assessment of factual knowledge			
	K6_K01		The student selects the appropriate tools to support design for teamwork			[SK1] Assessment of group work skills			
	K6_U04		The student prepares technical documentation in accordance with the applicable standards.			[SU1] Assessment of task fulfilment			
Subject contents	Graphical representation of spatial elements on a plane: orthographic projection; basic concepts concerning the structure and rules of its drawing, types of structure notation, drafting paper sizes and scales; methods of graphical representation of the structure and dimension system; graphic representation of construction connections; detachable and non-detachable connections; assembly drawings and detail drawings; the rules for creating drawings using of AutoCad software; graphic representation of electrical systems; presentation of selected graphic symbols used in mechanics, electrical engineering, automatics and power engineering.								
Prerequisites and co-requisites	Basic computer skills								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Design task during laboratory classes		50.0%			50.0%			
	Theory test		50.0%						
Recommended reading			 Dobrzański T.: Rysunek techniczny maszynowy. Warszawa: WNT, 1998 Mazur J., Kosiński k., Polakowski K. Grafika inżynierska z wykorzystaniem metod CAD. Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa 2004. Pikoń A. AutocCAD PL. Helion. Gliwice 2006. 						

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	Supplementary literature	www.cad.pl				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Perform technical documentation stated object.					
Work placement	Not applicable					

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