

Subject card

	Coomotimismila	ing for Ford	DO 000501	222					
Subject name and code	Geometry and Graphics for Engineers, PG_00058333								
Field of study	Hydrogen Technologies and Electromobility								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the	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 Biome	aculty of Electrical and Control Engineering							
Name and surname	Subject supervisor		dr inż. Wiktor Waszkowiak						
of lecturer (lecturers)	Teachers		dr inż. Wiktor Waszkowiak						
			dr inż. lek. Piotr Tojza						
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 in classes included		Participation in consultation hours		Self-study S		SUM	
	Number of study hours	45		1.0		4.0		50	
Subject objectives	The ability to create technical documentation, including electrical documentation, with the use of CAD software supporting design								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U04] can apply the learned methods to the analysis and design of electrical elements, devices and systems					[SU1] Assessment of task fulfilment			
	[K6_W09] knows the principles of designing electrical installations, controlling electrical devices in hydrogen installations, making technical drawings and documentation		The student describes the principles of rectangular projection and explains the methods of presenting views and sections of machine elements.			[SW1] Assessment of factual knowledge			
	[K6_U11] has the ability to self- educate in order to improve professional qualifications		The student selects the appropriate tools to support design in terms of teamwork			[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	Theory test		50.0%			50.0%			
	Design task during laboratory classes		50.0%			50.0%			

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Recommended reading	Basic literature	 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. 			
	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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