



Subject card

Subject name and code	Project-Computer Recording, PG_00038093						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2021	Academic year of 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	2	Language of instruction				Polish	
Semester of study	3	ECTS credits				3.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Mechatronics and High Voltage Engineering -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wiktor Waszkowiak				
	Teachers		dr inż. Łukasz Doliński dr inż. Wiktor Waszkowiak dr inż. Piotr Tojza				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		5.0		40.0	90
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_K02		The student selects the appropriate tools to support design for teamwork			[SK1] Assessment of group work skills	
	K6_W10		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_U02		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 and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	practical test		50.0%			50.0%	
	Design task during laboratory classes		50.0%			50.0%	
Recommended reading	Basic literature		<ol style="list-style-type: none"> 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. AutocAD PL. Helion. Gliwice 2006. 				

	Supplementary literature	1. www.cad.pl
	eResources addresses	
Example issues/ example questions/ tasks being completed	Prepare the technical documentation stated object.	
Work placement	Not applicable	