

Subject card

Subject name and code	Project-Computer Recording, PG_00061760							
Field of study	Automation, Robotics and Control Systems							
Date of commencement of studies	October 2023		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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor dr inż. Wiktor Waszkowiak							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Laboratory Project Se		Seminar	SUM
of instruction	Number of study hours	15.0	0.0	30.0	0.0	0.0		45
	E-learning hours inclu			i		i -		
Learning activity and number of study hours	Learning activity	ng activity Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		3.0		27.0		75
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_U02] can work individually and in a team, can communicate using various techniques in a professional environment, as well as document and analyze the results of their work, can estimate the time needed to perform the entrusted task can prepare and present a presentation on the problems and results of an engineering task					[SU1] Assessment of task fulfilment		
	[K6_K02] can work in a group taking on different roles in it		design support tools for teamwork			[SK1] Assessment of group work skills		
[K6_W10] has basic knowledge related to mechatronics and robotics systems		knowledge ics and	Students will describe the principles of orthographic projection and explain how views and sections of machine elements are represented			[SW1] Assessment of factual knowledge		
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		
	Design task during laboratory classes		50.0%		50.0%			
	practical test		50.0%			50.0%		

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

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