GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Geometry and Graphics for Engineers, PG_00053409		
Field of study	Electrical Engineering		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2025/2026
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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wiktor Waszkowiak	
	Teachers		

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	10.0	60

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	The student prepares technical documentation in accordance with the applicable standards.	[SU1] Assessment of task fulfilment
K6_K01	The student selects the appropriate tools to support design for teamwork	[SK1] Assessment of group work skills
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

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
Theory test	50.0%	50.0%
Design task during laboratory classes	50.0%	50.0%

Recommended reading

Basic literature	1. Dobrzański T.: Rysunek techniczny maszynowy. Warszawa: WNT, 1998 2. Mazur J., Kosiński k., Polakowski K. Grafika inżynierska z wykorzystaniem metod CAD. Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa 2004. 3. 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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