

Subject card

Subject name and code	Engineering Graphics II, PG_00039867								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject		2021/2022				
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	4		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Machine Design and Vehicles -> Faculty of Mechanical Engineering and Ship Technol					echnology			
Name and surname	Subject supervisor		dr hab. inż. Waldemar Karaszewski						
of lecturer (lecturers)	Teachers	dr hab. inż. Waldemar Karaszewski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	ratory Project		Seminar	SUM	
	Number of study hours	15.0	0.0	0.0 15.0			0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation in classes include plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		5.0		15.0		50	
Subject objectives	The aim of the course is to learn the principles of drawing machine parts, connections used in machine construction and preparation of assembly drawings.								
Learning outcomes	Course outcome Subject outcome Method of verific					fication			
	and tools used in preparation of technical documentation		A student draws based machine elements according to machine technical drawing standards. He creates working and assembly drawings of machine elements. He reads information about machine elements based on presented elements and units drawings. He draws and reads structural forms of three-dimensional mechanical elements and mechanical units. He reads diagrams of complex mechanical systems.			[SW1] Assessment of factual knowledge			
	or technological task, including the description of the results of this task in Polish or in a foreign language and to present the		A student draws based machine elements according to machine technical drawing standards. He creates working and assembly drawings of machine elements. He reads information about machine elements based on presented elements and units drawings. He draws and reads structural forms of three-dimensional mechanical elements and mechanical units. He reads diagrams of complex mechanical systems.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Principles of assembly drawings. Permanent joints presentation of machine elements (welded, glue, rivet joints). Temporary fastenings presentation of machine elements (screw, shaft-hub joints). Presentation ways of standardized machine elements (bearings, gears, clutches, brakes, shafts and axles). Presentation ways of springs and seals. Basic information about technical drawings in electrotechnics and electronics, electric diagrams. Pneumatics and hydraulics diagrams. Drawings and machine diagrams practical reading. Introduction to computer graphics.								

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Prerequisites and co-requisites	Engineering Graphics I Based knowledge of theory of machines and metrology.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Design tasks	60.0%	40.0%				
	Final exam	60.0%	60.0%				
Recommended reading	Basic literature	Dobrzański T .: Technical and machine drawing. WNT, Warsaw, 2017. Rigall A., Sadaj J .: Technical drawing - Descriptive geometry, Gdansk University of Technology, 2003.					
	Supplementary literature	Kurmaz L.W.: Designing nodes and machine parts, publishing house of the Kielce University of Technology, 2007					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Preparation of the assembly drawing of the welded joint Making an assembly drawing of a screw connection Preparation of the assembly drawing of the drive unit system						
Work placement	Not applicable	Not applicable					

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