

Subject card

Subject name and code	Geometry and Engineering Graphics II, PG_00039394								
Field of study	Medical and Mechanical Engineering, Mechanical and Medical Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
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 university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		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 Technology								
Name and surname	Subject supervisor	dr hab. inż. Waldemar Karaszewski							
of lecturer (lecturers)	Teachers		mgr inż. Katarzyna Mazur dr inż. Sebastian Grelik-Urbanowski dr inż. Grzegorz Rotta dr hab. inż. Waldemar Karaszewski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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:								
	Engineering Graphics II - Moodle ID: 13548 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13548								
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Self-study		SUM		
	Number of study hours	30		3.0		17.0		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 verification			
	K6_U02			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.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
	K6_W07		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			

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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.						
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				
	Final task	60.0%	60.0%				
	Design tasks	60.0%	40.0%				
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	Engineering Graphics II - Moodle ID: 13548 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13548					
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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