

Subject card

Subject name and code	Geometry and Engineering Graphics, PG_00041982								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power 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			e-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			5.0			
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. Marek Łubniewski						
		mgr inż. Bartosz Bastian							
			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	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 45.0								
	Adresy na platformie eNauczanie: Geometry and Engineering Graphics - Moodle ID: 7519 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7519								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study		SUM		
	Number of study hours	study 45		5.0		75.0		125	
Subject objectives	The aim of the course is to shape the 3D imagination, to learn the principles of projection and defining drawings in accordance with the applicable standards and rules of technical drawing, to learn the principles of presenting connections and components of drive systems in a technical drawing.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U04		based on orthographic projection. He presents the rules of presentation elements in			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			
	K6_K01	The student independently broadens his knowledge on the basis of the available literature.			[SK2] Assessment of progress of work				
Subject contents	The LECTURE of describing the geometric elements and objects. Reference system. Main and additional projecting plane. Axouometric and perpendicular projections. The methods of the machine systems drawing presentation, assembly and working drawings. Standarization of machine parts - selesction and specification of standard elements. EXERCISES Perpendicular projections of the geometric figures and tree-dimensional objects. Section of figures and 3d objects. Presentation of the objects in typical projectivns. Working out the assembly and working drawings. Drawing the connections and elements of drives.								
Prerequisites and co-requisites	Knowledge of the subjects: "Mathematics" and "Machine constructions"								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Practical exercise	50.0%	0.0%			
	Colloquium at the end of semester	50.0%	100.0%			
Recommended reading	Basic literature	Dobrzański T.: Rysunek techniczny maszynowy. Wydawnictwo Naukowo-Techniczne, W-wa 2006.				
	Supplementary literature	Rigall A., Sadaj J.: Zapis konstrukcji, cz. I. Wydawnictwo "JESAD" Gdańsk				
	eResources addresses	Geometry and Engineering Graphics - Moodle ID: 7519 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7519				
Example issues/ example questions/ tasks being completed	1. Sectional views.					
	2. Add missing projected views.					
	3. Make a workshop drawing for a detail.					
	Make an assembly drawing of screen connection.					
Work placement	Not applicable					

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