

Subject card

Subject name and code	Engineering Graphics I, PG_00039800								
Field of study	Materials Engineering, Materials Engineering, Materials Engineering, Materials Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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	2		Language of instruction		Polish				
Semester of study	4		ECTS credits		4.0				
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 of lecturer (lecturers)	Subject supervisor		dr inż. Katarzyna Zasińska						
	Teachers		dr inż. Katarzyna Zasińska						
	mgr inż. Marek Łubnie								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
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	60		5.0		35.0		100	
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.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	K6_U03	A student draws space elements based on orthographic projection. He presents the rules of presentation elements in engineering drawing. He draws and reads structural forms of three-dimensional mechanical elements. He describes surface attributes of elements. He draws of machine elements dimensions and creates working drawings of 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			
	K6_U01	The student understands the importance of Engineering Graphics in the process of implementing design tasks. The student applies the rules set out in the standards for the presentation of technical objects on the drawings.	[SU1] Assessment of task fulfilment			
	K6_K01	The student understands the importance of Engineering Graphics in the process of implementing design tasks. The student applies the rules set out in the standards for the presentation of technical objects on the drawings.	[SK2] Assessment of progress of work			
	K6_W05	A student draws space elements based on orthographic projection. He presents the rules of presentation elements in engineering drawing. He draws and reads structural forms of three-dimensional mechanical elements. He describes surface attributes of elements. He draws of machine elements dimensions and creates working drawings of 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			
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"					
Assessment methods and criteria	Subject passing criteria Practical exercise Colloquium at the end of semester	Passing threshold 50.0% 50.0%	Percentage of the final grade 0.0% 100.0%			
Recommended reading	Basic literature	Dobrzański T.: Rysunek techniczny maszynowy. Wydawnictwo Naukowo-Techniczne, W-wa 2006. Rigall A., Sadaj J.: Zapis konstrukcji, cz. I. Wydawnictwo "JESAD"				
	Supplementary literature	Gdańsk				
	eResources addresses					

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Example issues/ example questions/ tasks being completed	1. Sectional views.
	2. Add missing projected views.
	3. Make a workshop drawing for a detail.
	4. Make an assembly drawing of screen connection.
Work placement	Not applicable

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