

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Engineering Graphics I, PG_00039800							
Field of study	Materials Engineering, Materials Engineering, Materials Engineering							
Date of commencement of studies	October 2021			Academic year of realisation of subject		2022/2023		
Education level	first-cycle studies		Subject g	Subject group		Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of c	Mode of delivery		at the university		
Year of study	2		Language	Language of instruction		Polish		
Semester of study	4		ECTS cre	ECTS credits		4.0		
Learning profile	general academic profile		Assessme	Assessment form		assessment		
Conducting unit	Institute of Mechanics and Machine Design -> 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 Łubniewski							
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 inc	luded: 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	60		5.0		35.0		100
Subject objectives	The aim of the subje drawings in accorda of presenting conner	nce with the a	pplicable stand	ards and rules of	of techni	cal drav	wing, to learn	

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	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 threedimensional 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			
	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 [SU4] Assessment of ability to use methods and tools			
	К6_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 threedimensional 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 [SU2] Assessment of ability to analyse information			
	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			
Subject contents	LECTURE Ways of describing the geometric elements and objects. Reference system. Main and additionalprojecting plane. Axouometric and perpendicular projections. The methods of the machine systems drawingpresentation, assembly and working drawings. Standarization of machine parts - selesction and specification of standard elements.					
	Perpendicular projections of the geometric figures and tree-dimensionalobjects. Section of figures and 3d objects. Presentation of the objects in typical projectivns. Working out theassembly and working drawings.Drawing the connections and elements of drives.					
Prerequisites and co-requisites	Knowledge of the subjects: "Mathem	natics" and "Machine constructions".				

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	Midterm colloquium	56.0%	40.0%	
	Laboratory excercise reports	56.0%	60.0%	
Recommended reading	 Basic literature Dobrzański T.: Rysunek techniczny maszynowy. Wydawnic Naukowo-Techniczne, W-wa 2006. Zapis konstrukcji, część I, Geometria Wykreślna, A. Rigall, 			
	Supplementary literature	erature Zapis konstrukcji, część I, Geometria Wykreślna, A. Rigall, J. Sadaj		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	 Sectional views. Add missing projected views. Make a workshop drawing for a detail. Make an assembly drawing of screen connection. 			
Work placement	Not applicable			