

GDAŃSK UNIVERSITY

Subject card

Subject name and code	Engineering Graphic	s II, PG_00039	411						
Field of study	Mechatronics, Mechatronics								
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				
						Subject group related to scientific research 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 of lecturer (lecturers)	Subject supervisor		dr hab. inż. Waldemar Karaszewski						
	Teachers		mgr inż. Katarzyna Mazur						
	dr inż. Katarzyna Zasińska								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	15.0		0.0	15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie: Engineering Graphics II - Moodle ID: 13550 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13550								
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	15		5.0		30.0		50	
Subject objectives	The aim of the course construction and pre				e parts,	conne	ctions used ir	machine	

Learning outcomes	Course outcome	Subject outcome	Method of verification			
	K6_W04	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			
	K6_U06	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			
	K6_U05	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			
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 mach	ines and metrology.				
Assessment methods	Cubicat acceler criteria	Dessing threshold	Demonstrate of the final analo			
and criteria	Subject passing criteria Final exam	Passing threshold 60.0%	Percentage of the final grade 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, publis the Kielce University of Technology, 2007					
	eResources addresses	Engineering Graphics II - Moodle ID: 13550 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=13550				

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