

Subject card

Subject name and code	Engineering Graphics II, PG_00039936								
Field of study	Management and Production Engineering, Management and Production 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				
						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	Subject supervisor		dr hab. inż. Waldemar Karaszewski						
of lecturer (lecturers)	Teachers		dr inż. Katarzyna Zasińska						
			mgr inż. Zbigniew Gadomski						
			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					Self-study		SUM		
	Number of study hours	30		3.0		17.0		50	
Subject objectives	Celem przedmiotu jest poznanie zasad rysowania części maszyn, połączeń stosowanych w budowie maszyn oraz przygotowania rysunków złożeniowych i zestawieniowych.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	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				
	K6_U01	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_W03	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				
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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Final exam	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					

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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

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