

Subject card

Subject name and code	Engineering Graphics II, PG_00040038								
Field of study	Mechanical Engineering								
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Date of commencement of studies	October 2021		Academic year of realisation of subject			2021/2022			
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	Part-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	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology							hnology	
Name and surname	Subject supervisor	prof. dr hab. inż. Michał Wasilczuk							
of lecturer (lecturers)	Teachers		dr inż. Grzegorz Rotta						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	8.0	0.0	0.0	8.0		0.0	16	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Grafika Inżynierska II, niestacjonarne - Moodle ID: 23198 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23198								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-st	udy	SUM		
	Number of study hours	16	5.0		29.0		50		
Subject objectives	To acquaint students with the methods of mapping the geometric form of technical objects. To acquaint students with the basics of machine engineering drawing (presenting threaded connections, presenting welded joints and other permanent connections, presenting mechanical drive systems and their elements - shafts or axles, bearings, mechanical transmissions, seals, etc.). To acquaint students with the basics of creating technical documentation.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U03] is able to identify, formulate and develop the documentation of a simple design or technological task, including the description of the results of this task in Polish or in a foreign language and to present the results using computer software or other aiding tools					[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K6_W07] knows the principles of engineering drawing, standards and tools used in preparation of technical documentation		A student knows the rules and standards of technical drawing and their application in the preparation of technical documentation			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
Subject contents	The main program content of the lectures Presentation of welded joints and other permanent joints. Manufacturing drawings of shafts or axles. Representation of bearings (especially rolling bearings of various kinds). Presentation of mechanical transmissions: - gears, - chain wheels, - pulleys, - pin-hub connections, - shaft seals, - assembly drawings of mechanical transmissions. Technical Documentation. The main content of the exercises General assembly drawing of the subassembly assembled from threaded elements (e.g. a hydraulic connection). Executive drawing of the welded element. General assembly drawing of the drive subassembly (roller bearing shaft, gear wheel, key connections, snap rings, lock nut with toothed washer, sealing ring, bolted housing covers, etc.). Manufacturing drawing of the shaft.								
Prerequisites and co-requisites	Engineering graphics	I							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Exercise tasks	100.0%	40.0%		
	Test	50.0%	60.0%		
Recommended reading	Basic literature	Dobrzański T.: Rysunek techniczny maszynowy. Warszawa: WN-T.			
	Supplementary literature	Burcan J.: Podstawy rysunku technicznego. Warszawa: WN-T 2006.			
	eResources addresses	Grafika Inżynierska II, niestacjonarne - Moodle ID: 23198 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23198			
Example issues/ example questions/ tasks being completed	Assembly drawing of the subassembly assembled from threaded elements. Executive drawing of the welded element. Assembly drawing of the drive component. Executive drawing of the shaft.				
Work placement	Not applicable				

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