

Subject card

Subject name and code	Engineering Graphics II, PG_00040167								
Field of study	Mechanical Engineering								
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	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			English			
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					echnology			
Name and surname of lecturer (lecturers)	Subject supervisor dr hab. inż. Jacek Łubiński								
	Teachers		dr hab. inż. Jacek Łubiński						
	mgr inż. Bartosz Bastian								
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, W/P, Design and Production engineering, sem. letni 2021/2022, (PG_00040167) - Moodle ID: 23314 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23314								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-st	udy	SUM		
	Number of study hours	30		5.0		15.0		50	
Subject objectives	The aim of the classes is to learn the principles of technical drawing of machine parts and connections used in machine building. Preparation of working and assembly drawings.						inections used		
Learning outcomes	Course out	Subject outcome			Method of verification				
	K6_W07		The student is capable of - drawing machine parts with current technical drawing norms, - creating working and assembly drawings, - reading information of machine elements on assembly drawings, - understands spatial construction of mechanical assemblies, - reads diagrams of the technical systems.			[SW1] Assessment of factual knowledge			
	[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		The student is capable of - drawing machine parts with current technical drawing norms, - creating working and assembly drawings, - reading information of machine elements on assembly drawings, - understands spatial construction of mechanical assemblies, - reads diagrams of the technical systems.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			

Data wydruku: 09.04.2024 23:03 Strona 1 z 2

Subject contents	biect contents Rules of assembly draing.						
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	Permanent joints (wealding, soldering) Non permanent joints (threads) Normalized parts on drawing (bearings, gears, clutch, axies) Sealing and flexible parts. Electircal diagrams						
	Pneumatic and hydraulic diagram.						
Prerequisites and co-requisites	Engineering Graphics II						
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	Basics of machine building and metrology						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Design classes	60.0%	40.0%				
	Final coloquium	60.0%	60.0%				
Recommended reading	Basic literature	Zapis Konstrukcji Geometria Wykreślna, A. Rigall, J. Sadaj Rysunek Techniczny T. Dobrzański					
	Supplementary literature	Schaum's outline of theory and problems of Descriptive geometry - Minor Clyde Hawk					
	eResources addresses	Engineering Graphics II, W/P, Desi sem. letni 2021/2022, (PG_000401 https://enauczanie.pg.edu.pl/moodl	67) - Moodle ID: 23314				
Example issues/ example questions/	eResources addresses Assembly drawing of welding part	Engineering Graphics II, W/P, Desi sem. letni 2021/2022, (PG_000401 https://enauczanie.pg.edu.pl/moodl	67) - Moodle ID: 23314				
		sem. letni 2021/2022, (PG_000401 https://enauczanie.pg.edu.pl/moodl	67) - Moodle ID: 23314				
example questions/	Assembly drawing of welding part	sem. letni 2021/2022, (PG_000401 https://enauczanie.pg.edu.pl/moodl	67) - Moodle ID: 23314				

Data wydruku: 09.04.2024 23:03 Strona 2 z 2