

Subject card

Subject name and code	Engineering Graphics II, PG_00040167								
Field of study	Mechanical Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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								
Name and surname	Subject supervisor dr hab. inż. Jacek Łubiński								
of lecturer (lecturers)	Teachers		mgr inż. Bartosz Bastian						
			dr hab. inż. Ja						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan					Self-study 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.								
Learning outcomes	Course outcome		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			

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Subject contents	Rules of assembly draing.							
	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							
	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	Adresy na platformie eNauczanie: Engineering Graphics II (M:31997W1) 2023/24 - Moodle ID: 37119 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37119						
Example issues/ example questions/ tasks being completed	e questions/							
<u> </u>	Assembly drawing of threaded connection							
	Drawing of drive system							
Work placement	Not applicable	Not applicable						

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