

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	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 inclu	uded: 0.0						+
Learning activity and number of study hours	Learning activity Participation in 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.						
oubject contents	Tales of accoming 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				
		Schaum's outline of theory and pro Minor Clyde Hawk	blems of Descriptive geometry -				
	eResources addresses	Schaum's outline of theory and pro Minor Clyde Hawk Adresy na platformie eNauczanie:	blems of Descriptive geometry -				
		Minor Clyde Hawk Adresy na platformie eNauczanie: Engineering Graphics II (M:31997V	V1) 2023/24 - Moodle ID: 37119				
Example issues/ example questions/		Minor Clyde Hawk Adresy na platformie eNauczanie:	V1) 2023/24 - Moodle ID: 37119				
	eResources addresses	Adresy na platformie eNauczanie: Engineering Graphics II (M:31997V https://enauczanie.pg.edu.pl/moodl	V1) 2023/24 - Moodle ID: 37119				
example questions/	eResources addresses Assembly drawing of welding part	Adresy na platformie eNauczanie: Engineering Graphics II (M:31997V https://enauczanie.pg.edu.pl/moodl	V1) 2023/24 - Moodle ID: 37119				

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