

Subject card

Subject name and code	Engineering Graphics II, PG_00040167								
Field of study	Mechanical Engineering, Mechanical 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			English			
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics	Design -> Facı	ulty of Mechani	ical Eng	ineering	and Ship Te	chnology		
Name and surname of lecturer (lecturers)	Subject supervisor mgr inż. Bartosz Bastian								
	Teachers		dr inż. Grzego	orz Rotta					
	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 2020/2021, (PG_00040167) - Moodle ID: 10143 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10143								
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.						nections used		
Learning outcomes	Course out	Subject outcome			Method of verification				
[K6_U03] is able to formulate and developmentation of a or technological tax description of the results using compother aiding tools		p the imple design including the ults of this foreign sent the	- 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.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			
	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			

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Subject 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						
	Basics of machine building and metrology						
Assessment methods	Subject passing criteria Passing threshold Percentage of the final grade						
and criteria	Final coloquium	60.0%	60.0%				
	Design classes	60.0%	40.0%				
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, Design and Production engineering, sem. letni 2020/2021, (PG_00040167) - Moodle ID: 10143 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=10143					
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Example issues/ example questions/	Assembly drawing of welding part	ппрэ.//епацсzапе.ру.ецц.р//пооп	e/course/view.pnp?id=10143				
	Assembly drawing of welding part Assembly drawing of threaded cont		e/course/view.pnp?id=10143				
example questions/			e/course/view.pnp?id=10143				

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