

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Engineering Graphics I, PG_00040031								
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	Part-time studies		Mode of delivery			e-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Zakład Mechaniki Stosowanej i Biomechaniki -> Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor	dr hab. inż. Wiktoria Wojnicz							
of lecturer (lecturers)	Teachers dr inż. Krzysztof Druet								
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	arning hours included: 30.0							
	Address on the e-learning platform: https://teams.microsoft.com/l/meetup-join/ 19%3ameeting_YWY1YTg0MDltNGFmZi00ODk2LTgwNTgtNmM4ODU10Tg4MmM0%40thread.v2/0? context=%7b%22Tid%22%3a%2286760356-0022-486f-b793- a2d470bba5a5%22%2c%22Oid%22%3a%225e6e6134-a608-42d6-ac50-306a65193fde%22%7d Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan		I didactic Participation in consultation hours		Self-study		SUM		
	Number of study hours	30		5.0		65.0		100	
Subject objectives	To acquaint students with the methods of mapping the geometric form of technical objects. To acquaint students with the basics of technical drawing of a machine (views, sections, dimensioning, tolerating dimensions, marking the condition of the surface, presenting threaded connections).								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W07] knows the principles of engineering drawing, standards and tools used in preparation of technical documentation		A student knows the basics of technical drawing used in mechanical engineering.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
	[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		A student is able to make an executive drawing of an element of a mechanical device.			[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
Subject contents	The main program content of the lectures Projection methods. Monge's orthogonal projection method. Mapping in rectangular projections and in axonometry of a point, a line, a plane, plane figures and solids. Pierce points and sections. Presentation of objects in a engineering drawing - views, sections, section examples, partial sections, etc. General principles of dimensioning. Dimension tolerance. Determination of the surface condition of machine elements. Representation of threaded connections. The main content of the exercises Mapping in orthographic projections and in axonometry of a point in space. Simple in space, projections of flat figures. Straight line piercing points, solid sections by planes. Solids and machine elements in rectangular projections and in axonometry. Machine element cross-sections. Dimensioning of a machine element.								

Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Test	50.0%	60.0%			
	Exercise tasks	100.0%	40.0%			
Recommended reading	Basic literature	Dobrzański T.: Rysunek techniczny maszynowy. Warszawa: WN-T.				
		Rigall A., Sadaj J.: Zapis konstrukcji. Część I. Geometria wykreślna. Gdańsk: Wyd. "JESAD" 1994.				
	Supplementary literature	Burcan J.: Podstawy rysunku technicznego. Warszawa: WN-T 2006.				
		Gutowski A.: Zadania z rysunku technicznego. Warszawa: Wyd. Szkolne i Pedagogiczne 1992.				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Mapping in rectangular projections and in axonometry: point, line, plane figures, solids and machine elements. Straight line piercing points, solid sections by planes. Machine element cross-sections. Dimensioning of a machine element.					
Work placement	Not applicable					