

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Introduction to Design and Engineering Graphics, PG_00040523							
Field of study	Engineering Management							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023		
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			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej							ziały
Name and surname	Subject supervisor	dr inż. Krzysztof Redlarski						
of lecturer (lecturers)	Teachers		dr inż. Krzysz	tof Redlarski				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	16.0	0.0	16.0	0.0		0.0	32
	E-learning hours inclu	ided: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM
	Number of study hours	32	32 6.0			37.0		75
Subject objectives	The student knows the basics of design methodology, has the ability to apply them in practical design works, is able to independently make basic technical drawings and read them correctly. Can use IT tools used in the design process, ie AutoCAD.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organisation's resources, including technical resources		knows drawing standards and knows how to use them in practice			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U06] uses basic theoretical knowledge to solve selected organizational problems, design technical solutions and manage projects, including engineering projects		knows the design methodology			[SU4] Assessment of ability to use methods and tools		
Subject contents	LECTURE Presentation of design theory. Determination of the features of technical drawings. The concept of scale and drawing tolerance. Types of drawing lines, rules and areas of their application. Principles of orthographic projection. Principles of creating sections and sections of solids. Principles of dimensioning technical drawings. Drawing sheet formats. Elements of technical drawing. LABOLATORY: Preparation of technical drawings with the use of AutoCAD software. Principles of drawing various elements of a machine technical drawing. Drawing, dimensioning and describing technical drawings. Drawing connections of machine and device elements. Drawing executive, assembly and isometric drawings. Drawing diagrams from various fields of technology.							

Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Project	60.0%	70.0%			
	Written exam	60.0%	30.0%			
Recommended reading	Basic literature	 Tadeusz Dobrzański: Rysunek techniczny maszynowy (wyd. 24), WNT Warszawa, 2005 J. Mazur, K. Kosiński, K. Polakowski: Grafika inżynierska z wykorzystaniem metod CAD, Wydawnictwo Politechniki Warszawskiej 2006r. Wojciech Gasparski: Projektowanie, PWN, Warszawa 1978 i nowsze. Jaskulski, A. (2016). AutoCAD 2016/LT2016/360+: kurs projektowania parametrycznego i nieparametrycznego 2D i 3D. Wydawnictwo Naukowe PWN. 				
	Supplementary literature	Other design subject literature available.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Podstawy projektowania i grafika inżynierska - NSTC - Moodle ID: 26212 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=26212				
Example issues/ example questions/ tasks being completed						
	35. Give the definitions of the term fit and indicate its variants.					
Work placement	Not applicable					

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