GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00055813		
Field of study	Ocean Engineering		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	7.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute of Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Daniel Piątek	
	Teachers	mgr inż. Ewa Wojtowicz dr inż. Daniel Piątek dr inż. Wojciech Leśniewski	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	30.0	0.0	90
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	90	16.0	69.0	175

Subject objectives	- Development of spatial imagination, - Understanding the rules for the implementation of technical documentation, - Ability to perform drawing sketches of machine components, - Ability to perform technical drawings;

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W04] has a basic knowledge in IT, electronics, automation and control, computer graphics useful to understand the possibilities of their application in ocean technology	the student is able to use computer-aided design tools to prepare drawing documentation in electronic 2D version	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[K6_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions	the student is able to use and applies standards related to engineering graphics in order to prepare drawing documentation of machine parts	[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information

Subject contents	LECTURE and TURTORIALS - The role of engineering graphics, basics of normalization, - Projections of parallel, rectangular and axonometric, - Point, line, plane, determination, common points, specyfic locations, - Solids of revolution and polyhedrons, puncture, cut, penetration, - Views, examples, cross-sections, - Dimensioning of components, dimensional tolerance, determination of the surface condition, - Types of drawings, graphic form sheet, rules for the design documentation;

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture - colloquium	60.0%	50.0%
	project - tech. drawings	60.0%	50.0%

Recommended reading	Basic literature	DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004 MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War.,2006
	Supplementary literature	ROMANOWICZ, P.: RYSUNEK TECHNICZNY W MECHANICE I BUDOWIE MASZYN. Wydawnictwo Techniczne PWN, W-Wa 1918; LEWANDOWSKI T. - Rysunek techniczny dla mechaników. WSiP Wydawnictwa Szkolne i Pedagogiczne, W-wa 2008; KURMAZ, L.: Podstawy Konstrukcji Maszyn. Projektowanie węzłów i części maszyn. Wyd. Politechniki Świętokrzyskiej, Kielce 2011;
	eResources addresses	Adresy na platformie eNauczanie: Grafika inżynierska (W), OiKM (PG_00060525), sem. 1, zimowy 23/24 - Moodle ID: 32800 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32800 Grafika inżynierska (W), OiKM (PG_00060525), sem. 1, zimowy 23/24 - Moodle ID: 32800 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=32800

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable