GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Project 3, PG_00041794		
Field of study	Ocean Engineering, Ocean Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2022/2023
Education level	first-cycle studies	Subject group	Optional subject group 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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	3.0
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. Wojciech Leśniewski	
	Teachers	dr inż. Wojciech Leśniewski	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	30.0	0.0	30

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	30	5.0	40.0	75

Subject objectives

Performing design calculations of the selected ship's device which will allow for the preparation of technical documentation and assembly drawing.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems	The student is able to use engineering tools and methods to design a ship device.	[SW3] Assessment of knowledge contained in written work and projects
[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems	The student is able to design the device in accordance with the assumed limitations.	[SU2] Assessment of ability to analyse information
[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student knows the principles of designing marine devices.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems	The student is able to use computer tools to work with the project.	[SU4] Assessment of ability to use methods and tools

Subject contents

Calculation design of the selected ship device. Crane, mooring winch, anchor winch, steering machine etc.

Prerequisites and co-requisites

Proven knowledge of material strength courses, mechanics, physics, mathematics and the basics of machine construction.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project evaluation	51.0%	100.0%

Recommended reading	Basic literature	1. Dietrich M. i inni: Podstawy konstrukcji maszyn . WNT 1999. 2. Szala J.: Napędy Mechaniczne - materiały z podstaw konstrukcji maszyn. Wydawnictwo ATR - Bydgoszcz 1997
	Supplementary literature	1.Stryczek S.: Napęd hydrostatyczny. Wydawnictwo Naukowo-Techniczne Warszawa 1999 2.Pawlicki K.: Elementy dźwignic. PWN, Warszawa, 1982 3.Wojtaszczyk B.: Urządzenia przeładunkowe drobnicowców. Wydawnictwo Morskie, 1988. 4.Pałuch K., Puchalski J., Iiwiński A.: Statki poziomego ładowania. Trademar, Gdynia 1996. 5.Perepeczko A.: Okrętowe urządzenia sterowe. Wydawnictwo Morskie Gdańsk 1983. 6.Dymarski Cz.: Okrętowe śruby nastawne. Konstrukcja i sterowanie. Wydawnictwo Politechniki Gdańskiej, Gdańsk 20011. 7.Lisowski J., Galbas J., Krajczyński Z.: Okrętowe stery strumieniowe. Wydawnictwo Morskie Gdańsk
	eResources addresses	Adresy na platformie eNauczanie: Praca Projektowa III - Moodle ID: 31068 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31068
Example issues/ example questions/ tasks being completed	Deck crane design. Mooring winch project. Anchor winch design.	
Work placement	Not applicable	