



Subject card

Subject name and code	Project 1, PG_00041791						
Field of study	Ocean Engineering						
Date of commencement of studies	October 2021		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	2		Language of instruction		Polish		
Semester of study	4		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. Agnieszka Maczyszyn				
	Teachers		dr inż. Agnieszka Maczyszyn dr inż. Piotr Bzura				
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	Familiarize students with the basics of designing deck equipment and general ship installations on a selected type of ship.						
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 knows the rules and tools helpful in the design of on-board equipment.		[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 propose the type of general ship's installation.		[SU2] Assessment of ability to analyse information		
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		The student is able to select ship machinery.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student is able to choose the optimal solution to the problem related to the arrangement of anchor and mooring equipment on board the ship.		[SW2] Assessment of knowledge contained in presentation		

Subject contents	1: introduction, assignment of ship types		
	2: Estimation of the main dimensions for the designed unit and calculation of the equipment index.		
	3: Selection of anchor and mooring equipment, drawing up a diagram of its arrangement on board the ship		
	4: Selection, calculations and drawing of steering equipment		
	5: Selection, calculations and drawing of general ship installations (ballast, bilge, fire protection)		
	6: Selection and drawing of the distribution of rescue and rescue equipment on the ship		
	7: Selection, calculations and drawing of special equipment		
	8: Delivery of ready-made projects.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project from parts of on-board equipment	60.0%	50.0%
	ship propulsion system design	60.0%	50.0%
Recommended reading	Basic literature	Wojtaszczyk B.: Urządzenia przeładunkowe drobnicowców, Wydawnictwo Morskie 1988	
	Supplementary literature	Więckiewicz W.: Instalacje kadłubowe statków morskich, Wydawnictwo Akademii Morskiej w Gdyni, Wydanie II, Gdynia 2009	
	eResources addresses	Adresy na platformie eNauczanie: Praca projektowa I, P, OCE, sem.04, letni 22/23 (PG_00041791) - Moodle ID: 28776 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28776 Praca projektowa I, P, OCE, sem.04, letni 22/23 (PG_00041791) - Moodle ID: 28776 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28776	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		