

Subject card

Outlies to a superior description	Project 1 DC 00044	701							
Subject name and code	Project 1, PG_00041								
Field of study	Ocean Engineering, Ocean Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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 pro	ofile	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	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
	Praca projektowa I, P, OCE, stacjonarne, sem.4, letni 21/22 (PG_00041791) - Moodle ID: 22276 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22276								
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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 principles of designing one- and two-stage reducers.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[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 implementation of the project.	[SW2] Assessment of knowledge contained in presentation			
	[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 make drawing documentation of the reducer.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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 make a machine shaft design.	[SU2] Assessment of ability to analyse information			
	[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.	[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	1: introduction, assignment of reducer types2: Introduction to Gear Design 3: design and calculation of single-stage reducer gearbox 4: design and calculation of shafts, bearings and gear grooves of a single-stage reducer 5: design and calculation of two-stage reducer gear 6: design and calculation of shafts, bearings and gear drains of a single-stage reducer 7: handing over ready-made projects.					
Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	ship propulsion system design	60.0%	50.0%			
	Project from parts of on-board equipment	60.0%	50.0%			
Recommended reading	Basic literature	Wojtaszczyk B.: Urządzenia przeładunkowe drobnicowców, Wydawnictwo Morskie 1988 Pałuch k., Puchalski J., Śliwiński A.: Statki poziomego ładowania, Trademar, Gdynia 1996 Płuciennik P., Projektowanie elementów maszyn z wykorzystaniem programu Autodesk Inventor reduktor jedno- i dwustopniowy, Wydawnictwo WNT, Warszawa 2017				
	Supplementary literature	Wojtaszczyk B.: Urządzenia przeładunkowe drobnicowców, Wydawnictwo Morskie 1988				
		Płuciennik P., Projektowanie elementów maszyn z wykorzystaniem programu Autodesk Inventor obliczenia przekładni, PWN, Warszawa 2015				
		Płuciennik P., Projektowanie elementów maszyn z wykorzystaniem programu Autodesk Inventor, Wydawnictwo Naukowe PWN, Warszawa 2013				
	eResources addresses	Praca projektowa I, P, OCE, stacjonarne, sem.4, letni 21/22 (PG_00041791) - Moodle ID: 22276 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22276 Praca projektowa I, P, OCE, stacjonarne, sem.4, letni 21/22 (PG_00041791) - Moodle ID: 22276 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22276				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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