

Subject card

Subject name and code	Project 2, PG_00041793								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
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	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Marine	Department of Marine Mechatronics -> Faculty of Ocean Engineering a				nd Ship Technology			
Name and surname	Subject supervisor		dr inż. Daniel Piątek						
of lecturer (lecturers)	Teachers		dr inż. Daniel Piątek						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	atory Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours inclu	uded: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation consultation h	articipation in onsultation hours		udy	SUM	
	Number of study hours	er of study 30		5.0		40.0		75	
Subject objectives	Ability to carry out the	e design course	. Selection of e	elements of the	electric	and hy	draulic syster	n.	
Learning outcomes	Course outcome Subject outcome Method of verification								
	[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 choose the appropriate tools to achieve the design goal			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task [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		part of the project in a team.			[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
			The student has an organized knowledge of the design, construction and operation of hydraulic and electrical systems.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[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 has a structured knowledge of engineering methods and design tools enabling the execution of the project.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			

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Subject contents	Electric drive and power systems for simple mechanisms.							
	Podstawowy układ napędu hydraulicznego (selection of pump and hydraulic motor)							
Prerequisites	Basic knowledge of electrical engineering and physics.							
and co-requisites	Basic knowledge of the basics of machine construction and the strength of materials and mechanics.							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria		50.0%	50.0%					
		50.0%	50.0%					
Recommended reading	Basic literature	Projektowanie napędów. Technika projektowa w praktyce. SEW EURODRIVE						
		Podstawy elektrotechniki i elektroniki. St.Bolkowski						
		Teoria obwodów elektrycznych. St.Bolkowski						
		Elektrotechnika i elektronika okrętowa - nowe wyd. R. BIAŁEK						
		STRYCZEK, S.: Nap d hydrostatyczny. T I i II. WNT, Warszawa 2016						
		manufacturers' catalogs						
	Supplementary literature	Online producer catalogs.						
	eResources addresses	Adresy na platformie eNauczanie: PRACA PROJEKTOWA II, OCE, sem 5 (zimowy), MSiUO, 2023-24, PG_00041793 - Moodle ID: 29183 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29183						
Example issues/ example questions/ tasks being completed								
Work placement	Not applicable							

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