



## Subject card

Subject name and code	, PG_00057220						
Field of study	Ocean Engineering						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	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 hab. inż. Damian Bocheński					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	18.0	0.0	0.0	9.0	0.0	27
	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	27	10.0		38.0	75	
Subject objectives	To familiarize students with the problems of dredging						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems				[SW1] Assessment of factual knowledge		
	[K7_K02] is aware non-technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken				[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W06] has an organized, widened knowledge on engineering methods and design tools allowing the conducting of advanced projects within the construction and operation of ocean technology objects and systems				[SW3] Assessment of knowledge contained in written work and projects		
	[K7_U03] can conduct a detailed analysis of the obtained results and present them in the form of a technical report or presentation, also in English				[SU1] Assessment of task fulfilment		
Subject contents	The purpose and tasks of dredging, types of dredging works, causes of sanding. News about dredging equipment. Construction and equipment of dredgers. Dredging technologies. Preparatory work for the implementation of dredging works. As-built survey of dredging works. Underwater works. Exploitation of submarine mineral deposits.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	design task	100.0%	40.0%
	test	60.0%	60.0%
Recommended reading	Basic literature	<p>Balcerski A., Bocheński D.: Układy technologiczne i energetyczne jednostek oceanotechnicznych. Politechnika Gdańska. 1998</p> <p>Lewko E.: Portowe roboty czepalne i podwodne. Akademia Morska w Gdyni 2006</p> <p>Bray R. N., Bates A., Land J. M.: Dredging, London 1997</p> <p>Vlasblom J. W.: Designing dredging equipment. TUDelft 2003</p> <p>Welte A.: <i>Nassbaggertechnik</i>. Institut für Maschinenwesen in Baubetrieb, Universität Fridericiana, Karlsruhe 1993</p>	
	Supplementary literature	internet	
	eResources addresses	Adresy na platformie eNauzanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		