

Subject card

Subject name and code	Fundamentals of Natural Naval Resources, PG_00043678							
Field of study	Ocean Engineering, Ocean Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021		
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			2.0		
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	Subject supervisor	dr hab. inż. Damian Bocheński						
of lecturer (lecturers)	Teachers	dr hab. inż. Damian Bocheński prof. dr hab. inż. Czesław Dymarski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0		0.0	30
	E-learning hours included: 0.0							
	Adresy na platformie eNauczanie: Podstawy morskich zasobów naturalnych cz. 2 - Moodle ID: 15780 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15780							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SU		SUM	
	Number of study hours	30		2.0		18.0		50
Subject objectives	Learn the basic knowledge of marine natural resources							
Learning outcomes			Subject outcome			Method of verification		
	[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations					[SU1] Assessment of task fulfilment		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems					[SW1] Assessment of factual knowledge		
Subject contents	The concept and division of natural resources. The genesis and geology of the oceans. Metallic raw materials - genesis and areas of occurrence, deposit distribution, forecast of development of polymetallic nodules deposits. Energy resources - oil and gas deposits, coal deposits. Properties of crude oil and its products. Non-metallic raw materials - chemical raw materials, rock raw materials, deposits of precious stones. Other raw materials obtained from seawater. The geology and minerals of the Baltic Sea.							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Test		60.0%			100.0%		
Recommended reading	Basic literature		Depowski S., Kotliński R., Ruhle E., Szamanek K.: Surowce mineralne mórz i oceanów. Wyd. Scolar, Warszawa 1998 Jastrzębska G.: Energia ze źródeł odnawialnych i jej wykorzystanie. WKŁ 2017					
	Supplementary literat	internet						
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	eResources addresses	Podstawy morskich zasobów naturalnych cz. 2 - Moodle ID: 15780
		https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15780
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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