

## Subject card

Subject name and code	Advanced ocean engineering technologies, PG_00057283							
Field of study	Ocean Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject		2022/2023			
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific			
	Full time at all a					research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits		3.0			
Learning profile	general academic pro	eneral academic profile		Assessment form		assessment		
Conducting unit	Department of Ship Manufacturing Technology, Quality Systems and Materials Science -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Milena Supernak					
	Teachers		mgr inż. Dariusz Duda					
	dr inż. Milena Supernak							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Semi		Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0			30
	E-learning hours incl	uded: 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	Extending the curren technological aspects engineering objects. material groups, determaterials from source literature.	s. To acquaint s Acquiring the a ermining and the	students with t bility to analyz eir propertiesu	the materials us se phenomena utility. Acquiring	sed onco and effe the abili	nstruct ctsstruct ity to ob	ion of floating ctural occurring otain informat	g and ocean ng in selected ion about new

Data wydruku: 20.04.2024 13:13 Strona 1 z 2

	Course outcome	Subject outcome	Method of verification		
	[K7_W07] has knowledge on the development perspectives of ocean technology objects and systems, knows the newest and most relevant achievements in ocean technology	student's knowledge of there is enough material science full and practical that along with they know from other subjects will enable him to select correctly materials and processes processing for the purpose produced sufficiently modern and reliable construction	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K7_W08] has knowledge necessary to understand economical, social and legal conditions and effects of engineering activities, knows general principles of initiating and develop forms of private entrepreneurship and has knowledge on the protection of industrial and intellectual property and on the copyrights	the student knows the principles of material design, which are necessary to apply the principles of sustainable development, knows how to conduct literary studies and distinguishes between concepts in the field of industrial and intellectual property protection	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
[K7_W09] has organized, widened knowledge on the principles of sustainable development		the student has enough knowledge of materials science i can integrate it with knowledge from other subjects in for use in comprehensive process structure design or technological process based on sustainable development	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge		
Subject contents	Characteristics of the structure, propapplicationsmaterial solutions used i groupsmaterials:- Constant- Aluminu		It includes the following		
Prerequisites					
and co-requisites	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Subject passing criteria test	Passing threshold 60.0%	Percentage of the final grade		
and co-requisites Assessment methods	, , ,	60.0%  1. Dobrzański L.A.: Metalowe mater 2004 2. Dobrzański L.A.: Materiały i	iały inżynierskie, WNT Warszawa nżynierskie i projektowanie 3. M. Blicharski: Wstęp do inżynierii 14. Ciszewski A. i inni: olitechniki Warszawskiej,		
and co-requisites Assessment methods and criteria	test	1. Dobrzański L.A.: Metalowe mater 2004 2. Dobrzański L.A.: Materiały i materiałowe, WNT Warszawa 2006 materiałowej, WNT, Warszawa 200 Materiałoznawstwo, Oficyna wyd. P Warszawa 2006 5. PRS- Przepisy k	riały inżynierskie, WNT Warszawa nżynierskie i projektowanie 3. M. Blicharski: Wstęp do inżynierii 1 4. Ciszewski A. i inni: olitechniki Warszawskiej, lasyfikacji i budowy jachtów y inżynierskie. Tom I i II. WNT, Materials Science and Engineering. Askeland, P.P. Phulé:The Science		
and co-requisites Assessment methods and criteria	test Basic literature	1. Dobrzański L.A.: Metalowe mater 2004 2. Dobrzański L.A.: Materiały i materiałowe, WNT Warszawa 2006 materiałoznawstwo, Oficyna wyd. P Warszawa 2006 5. PRS- Przepisy k Morskich- 1996  1. Ashby F.A., Jones D.R.: Materiały Warszawa, 1995. 2. Callister W.D.: Wiley and Sons, 2000-2006. 3. D.R	riały inżynierskie, WNT Warszawa nżynierskie i projektowanie 3. M. Blicharski: Wstęp do inżynierii 1 4. Ciszewski A. i inni: olitechniki Warszawskiej, dasyfikacji i budowy jachtów y inżynierskie. Tom I i II. WNT, Materials Science and Engineering. Askeland, P.P. Phulé:The Science d		
and co-requisites Assessment methods and criteria	test  Basic literature  Supplementary literature  eResources addresses	1. Dobrzański L.A.: Metalowe mater 2004 2. Dobrzański L.A.: Materiały i materiałowe, WNT Warszawa 2006 materiałoznawstwo, Oficyna wyd. P Warszawa 2006 5. PRS- Przepisy k Morskich- 1996  1. Ashby F.A., Jones D.R.: Materiały Warszawa, 1995. 2. Callister W.D.: Wiley and Sons, 2000-2006. 3. D.R and Engineering of Materials, 4th ed. Adresy na platformie eNauczanie: Zaawansowane technologie w ocea PG_00057282 - Moodle ID: 22472 https://enauczanie.pg.edu.pl/moodl	riały inżynierskie, WNT Warszawa nżynierskie i projektowanie 3. M. Blicharski: Wstęp do inżynierii 1 4. Ciszewski A. i inni: olitechniki Warszawskiej, clasyfikacji i budowy jachtów  y inżynierskie. Tom I i II. WNT, Materials Science and Engineering. Askeland, P.P. Phulé:The Science danotechnice_W/L_PG_00057283/ e/course/view.php?id=22472		

Data wydruku: 20.04.2024 13:13 Strona 2 z 2