



## Subject card

Subject name and code	, PG_00059753						
Field of study	Ocean Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	Subject group					
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			5.0		
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 inż. Maciej Reichel				
	Teachers		dr inż. Maciej Reichel				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15	0.0		0.0		15
Subject objectives	The aim is to provide to students a basic knowledge on the experimental research and tests.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U04] can apply mathematical methods and models and computer simulations to analyse, design, and assess the functioning of ocean technology objects and systems and their elements	Student can use numerical tools for preparation and analysis of laboratory tests.			[SU4] Assessment of ability to use methods and tools		
	[K7_U07] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete an advanced engineering task within the range of design, construction and operation of ocean technology objects and systems	Student is able to carry out advanced laboratory tests.			[SU4] Assessment of ability to use methods and tools		
	[K7_U08] can manage the work of a team, coordinate the conducting of a design or research task	Student is able to manage small research team.			[SU1] Assessment of task fulfilment		
	[K7_U06] when forming and solving design tasks can see their non-technical aspects, including environmental, economical and legal ones. Applies HSE rules and regulations	Student evaluates the impact of test results on the society.			[SU4] Assessment of ability to use methods and tools		
	[K7_W01] has a deepened and widened knowledge on certain fields of maths, used to formulate, solve and verify complex problems in ocean-technology	Student is able to analyse laboratory tests with advanced mathematical tools.			[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	Preparation of model tests:  * elaboration of test programme  * definition of requested scope of measurements  * identification of required measurement tools											
Prerequisites and co-requisites	Subject "Ship hydrodynamics"											
Assessment methods and criteria	<table border="1" data-bbox="451 465 1487 526"> <thead> <tr> <th data-bbox="451 465 794 495">Subject passing criteria</th> <th data-bbox="794 465 1137 495">Passing threshold</th> <th data-bbox="1137 465 1487 495">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 495 794 526"></td> <td data-bbox="794 495 1137 526">60.0%</td> <td data-bbox="1137 495 1487 526">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade		60.0%	100.0%			
Subject passing criteria	Passing threshold	Percentage of the final grade										
	60.0%	100.0%										
Recommended reading	<table border="1" data-bbox="451 537 1487 633"> <tbody> <tr> <td data-bbox="451 537 794 566">Basic literature</td> <td colspan="2" data-bbox="794 537 1487 566">Jarosz - Okrętowe baseny modelowe</td> </tr> <tr> <td data-bbox="451 566 794 595">Supplementary literature</td> <td colspan="2" data-bbox="794 566 1487 595">Krężelewski - Hydromechanika ogólna i okrętowa</td> </tr> <tr> <td data-bbox="451 595 794 633">eResources addresses</td> <td colspan="2" data-bbox="794 595 1487 633"></td> </tr> </tbody> </table>			Basic literature	Jarosz - Okrętowe baseny modelowe		Supplementary literature	Krężelewski - Hydromechanika ogólna i okrętowa		eResources addresses		
Basic literature	Jarosz - Okrętowe baseny modelowe											
Supplementary literature	Krężelewski - Hydromechanika ogólna i okrętowa											
eResources addresses												
Example issues/ example questions/ tasks being completed	test scope  required measurement tools  methods for results analyses											
Work placement	Not applicable											