



Subject card

Subject name and code	Ship Designing 2, PG_00045102						
Field of study	Ocean Engineering, Ocean Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	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 inż. Artur Karczewski				
	Teachers		dr inż. Tomasz Hinz dr inż. Artur Karczewski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	45.0	0.0	45
	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	45		5.0		25.0	75
Subject objectives	The aim of subject is a deepening the knowledge of design methods used in the initial design of merchant vessel, in the field of hull modeling, making proof calculations and estimating performance.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K03] understands 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		The student is able to analyze the non-technical aspects and effects of activity in the profession of an engineer, its impact on the environment and is aware of the responsibility for decisions made		[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
	[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 an organized knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of facilities and ocean engineering systems		[SW3] Assessment of knowledge contained in written work and projects		
	K_U05		The student can work with modern CAD tools used in shipbuilding		[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student has structured knowledge in the design, construction and operation of ocean engineering facilities and systems		[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	<p>Design task carried out in a computer laboratory with the use of computer software, e.g. NAPA, MaxSurf.</p> <p>Project scope:- hull modeling- interior division modeling,- calculation of stability,- estimation of the main parameters of the drive system- preparation of technical documentation.</p>		
Prerequisites and co-requisites	The Course: Projektowanie okrętów I		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	75.0%
	Report	100.0%	25.0%
Recommended reading	Basic literature	<p>Michalski J.P.: Podstawy teorii projektowania okrętów</p> <p>Buczowski L.: Podstawy budownictwa okrętowego.Tom 1, 2 i 3.</p> <p>Paczeński J., Staszewski J.: Projektowanie morskich statków chandlowych. Tom 1, 2 i3</p> <p>Watson D.G.M.: Practical ship design</p> <p>Papanikolaou A.: Methodologies of Preliminary Design</p>	
	Supplementary literature	<p>Schneekluth H.: Ship design for efficiency and economy</p> <p>Michalski J.P.: Metody przydatne do wspomaganego komputerem projektowania wstępnego statków śródlądowych.</p> <p>Volker B.: Practical Ship Hydrodynamics</p>	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		