



Subject card

Subject name and code	, PG_00054169						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study Subject group related to practical vocational preparation		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			3.0		
Learning profile	practical 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. Artur Karczewski dr hab. inż. Przemysław Krata					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	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	30	5.0		40.0	75	
Subject objectives	<p>The aim of the course is to develop a contract design along with a preliminary hull shape proposal. The specific objectives are: selection of a topic, definition of initial design assumptions, analysis of existing solutions, determination of the dimensions of the main parameters. The result of the project is technical documentation in the form of a report describing the course of the design process, containing detailed results of individual stages, technical description, drawings of theoretical lines, general plan, digital model of the hull.</p>						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W05	The student has a structured knowledge of the design, construction and operation of yachts.			[SW3] Assessment of knowledge contained in written work and projects		
	K6_U06	The student can formulate a simple engineering task in the field of design, manufacture and operation of yachts, using appropriate methods and tools.			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	K6_W06	The student has structured knowledge of engineering methods and design tools enabling the implementation of projects in the field of yacht construction and operation.			[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	<ol style="list-style-type: none"> 1. Formulating a design task 2. Determining the design assumptions 3. Analysis of existing solutions 4. Determining the dimensions of the main parameters. 5. Preliminary development of the hull shape 6. Preparation of technical documentation 		
Prerequisites and co-requisites	The course: Podstawy projektowania i konstruowania jachtów		
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	<ol style="list-style-type: none"> 1. L. Larsson, R. E. Eliasson, M. Orych <i>Podstawy projektowania jachtów</i> 2. Z. J. Milewski, <i>Projektowanie i budowa jachtów żaglowych</i> 3. J. W. Dziewulski, <i>Wiadomości o jachtach żaglowych</i> 4. Cz. Marchaj, <i>Teoria żeglowania Hydrodynamika kadłuba</i> 5. Cz. Marchaj, <i>Teoria żeglowania Aerodynamika żagla</i> 6. Cz. Marchaj, <i>Dzielność morska</i> 7. J. Kuliński, Z. Klimczak, <i>Praktyka Bałtycka na małym jachcie (po latach)</i> 	
	Supplementary literature	1. Przepisy Klasyfikacji i Budowy Jachtów Morskich, Części I VII	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		