



Subject card

Subject name and code	Fundamentals of Yacht Design and Construction, PG_00056245						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
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	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0 Adresy na platformie eNauczanie:						
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	2.0	18.0	50		
Subject objectives	The aim of the course is to introduce you to the theory of yacht design by studying:- basic concepts in the field of design,- major design strategies,- the traditional design process,- basic tools and professional terminology, and- modern design methods and tools.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U05	The student can formulate a simple engineering task and its specification in the field of design, production and operation of yachts.			[SU3] Assessment of ability to use knowledge gained from the subject		
	K6_W05	The student has structured knowledge in the design, construction and operation of yachts.			[SW1] Assessment of factual knowledge		
	K6_K03	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 making.			[SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	<ol style="list-style-type: none">1. Basic concepts of design theory2. Main design strategies3. Traditional yacht design process4. Modern yacht design methods5. Computer aided design process tools6. Technical documentation						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	100.0%
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> 8. W. L. Suska, <i>Motorówki i małe kutry motorowe</i>, Gdańsk: Fundacja Przemysłu Morskiego i Gospodarki Morskiej, 2010. 9. J. Michalski, <i>Podstawy projektowania okrętów</i>, PG 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Przepisy Klasyfikacji i Budowy Jachtów Morskich, Części I VII 2. Przepisy Klasyfikacji i Budowy łodzi motorowych, Części I-VI, PRS 3. <i>29/P Obliczanie i ocena stateczności statków żaglowych o długości nie mniejszej niż 24 m, PRS</i> 4. <i>101/P Jachty komercyjne 12+ , PRS</i> 	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		