



## Subject card

Subject name and code	, PG_00056245							
Field of study	Design and Construction of Yachts							
Date of commencement of studies	October 2022	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	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					
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							
Podstawy projektowania i konstruowania jachtów - Moodle ID: 29512 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29512">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29512</a>								
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	1. Basic concepts of design theory 2. Main design strategies 3. Traditional yacht design process 4. Modern yacht design methods 5. Computer aided design process tools 6. 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"> <li>1. L. Larsson, R. E. Eliasson, M. Orych <i>Podstawy projektowania jachtów</i></li> <li>2. Z. J. Milewski, <i>Projektowanie i budowa jachtów żaglowych</i></li> <li>3. J. W. Dziewulski, <i>Wiadomości o jachtach żaglowych</i></li> <li>4. Cz. Marchaj, <i>Teoria żeglowania Hydrodynamika kadłuba</i></li> <li>5. Cz. Marchaj, <i>Teoria żeglowania Aerodynamika żagla</i></li> <li>6. Cz. Marchaj, <i>Dzielność morska</i></li> <li>7. J. Kuliński, Z. Klimczak, <i>Praktyka Bałtycka na małym jachcie (po latach)</i></li> <li>8. W. L. Suska, <i>Motorówki i małe kutry motorowe</i>, Gdańsk: Fundacja Przemysłu Morskiego i Gospodarki Morskiej, 2010.</li> <li>9. J. Michalski, <i>Podstawy projektowania okrętów</i>, PG</li> </ol>
	Supplementary literature	<ol style="list-style-type: none"> <li>1. Przepisy Klasyfikacji i Budowy Jachtów Morskich, Części I VII</li> <li>2. Przepisy Klasyfikacji i Budowy łodzi motorowych, Części I-VI, PRS</li> <li>3. 29/P <i>Obliczanie i ocena stateczności statków żaglowych o długości nie mniejszej niż 24 m</i>, PRS</li> <li>4. 101/P <i>Jachty komercyjne 12+</i>, PRS</li> </ol>
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	