GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Wood Technology, PG_00045109		
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	2.0
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	prof. dr hab. inż. Janusz Kozak	
	Teachers	prof. dr hab. inż. Janusz Kozak mgr inż. Alicja Bera	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	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	4.0	16.0	50

Subject objectives

Goal of classes is delivery of knowledge on application and processing of wood for manufacturing of water crafts. In frame of subject problems of wooden materials, basic manufacturing processes in this metrology, as well as prolems of joining and protection of wood will be presented

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	Student is able to asses of the environmental impact of technical activities	[SK5] Assessment of ability to solve problems that arise in practice
[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	Student recognizes and knows issues and physical processes in relations to deigned object	[SW1] Assessment of factual knowledge
[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	Student apply known methods and tools to solving the problem	[SW1] Assessment of factual knowledge
[K6_U05] can formulate a simple engineering task and its specification within the range of design, construction and operation of ocean technology objects and systems	Student in proper way select problems for solving problem, decide on range of particular problems in whole project area	[SU2] Assessment of ability to analyse information

Subject contents	Scope of classes:: Lecture: Historical background on role of wood in floating objects Structure of wooden craft: ancient versus contemporary Wood - materials properties Processing of wood Tools and equipment for wood processing Carpenters joints Manufacturing processes of wooden yacht Protection of wooden craft hull Equipment and its fixing on wooden craft Laboratory: Recognition of basic kinds of domestic wood, knowledge of its application in boatbuilding, Recognition of basic kinds of exotic wood, assessment of quality, Assessment of material properties of given kind of wood, classification by usability for boat building, Preparation of specimen for tensile test, performing of test for two kinds of wood, Design of procedure of repairing of broken specimen, performing of joint Performing of test for two repaired specimen.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
laboratory	80.0%	50.0%
lecture	50.0%	50.0%

Recommended reading		
	Basic literature	1. Introduction to steel shipbuilding, McGraw-Hill Book Comp. 1953
	Supplementary literature	Miesięczniki typu: Ship & Boat International, Superyacht Business, itp.
	eResources addresses	Adresy na platformie eNauczanie: Technologia drewna , W/L, Oceanotechnika, sem.6, lato 23, (O: 098640) - Moodle ID: 29203 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29203

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable