



## Subject card

Subject name and code	, PG_00056257						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
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	5		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		prof. dr hab. inż. Janusz Kozak				
	Teachers						
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		3.0		17.0	50
Subject objectives	Presentation of selected problems of structural design of wooden floating crafts. Wood as structural material will be described, in this: physical properties, selected sorts of wood and its particularities, processing of wood, joining as well as anti environmental influence protection						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W03		Student recognizes and knows issues and physical processes in relations to deigned object		[SW2] Assessment of knowledge contained in presentation		
	K6_U05		Student in proper way selects problems for solving problem, decides on range of particular problems in whole project area		[SU2] Assessment of ability to analyse information		
	K6_W06		Student apply known methods and tools to solving the problem		[SW1] Assessment of factual knowledge		

Subject contents	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, manufacturing of joint		
Performing of test for two repaired specimen.			
Prerequisites and co-requisites	Knowledge on strength of materials		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture	50.0%	50.0%
	laboratory	80.0%	50.0%
Recommended reading	Basic literature	George Buehler, Buehler's Backyard Boatbuilding, International Marine, Camden 1991.  Robert M. Steward, Boatbuilding Manual, 4th Edition, International Marine, 1994.	
	Supplementary literature	Norman L. Skene, Elements of Yacht Design, Sheridan House, Dobbs Ferry NY 2001.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			

Work placement	Not applicable
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