



Subject card

Subject name and code	, PG_00056257						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group			Optional subject group Subject group related to practical vocational preparation		
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_W06		Student apply known methods and tools to solving the problem		[SW1] Assessment of factual knowledge		
	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_W03		Student recognizes and knows issues and physical processes in relations to deigned object		[SW2] Assessment of knowledge contained in presentation		

Subject contents	<p>Lecture:</p> <p>Historical background on role of wood in floating objects</p> <p>Structure of wooden craft: ancient versus contemporary</p> <p>Wood - materials properties</p> <p>Processing of wood</p> <p>Tools and equipment for wood processing</p> <p>Carpenters joints</p> <p>Manufacturing processes of wooden yacht</p> <p>Protection of wooden craft hull</p> <p>Equipment and its fixing on wooden craft</p> <p>Laboratory:</p> <p>Recognition of basic kinds of domestic wood, knowledge of its application in boatbuilding,</p> <p>Recognition of basic kinds of exotic wood, assessment of quality,</p> <p>Assessment of material properties of given kind of wood, classification by usability for boat building,</p> <p>Preparation of specimen for tensile test, performing of test for two kinds of wood,</p> <p>Design of procedure of repairing of broken specimen, manufacturing of joint</p> <p>Performing of test for two repaired specimen.</p>											
Prerequisites and co-requisites	Knowledge on strength of materials											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 1583 794 1619">Subject passing criteria</th> <th data-bbox="799 1583 1141 1619">Passing threshold</th> <th data-bbox="1145 1583 1482 1619">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 1626 794 1662">laboratory</td> <td data-bbox="799 1626 1141 1662">80.0%</td> <td data-bbox="1145 1626 1482 1662">50.0%</td> </tr> <tr> <td data-bbox="453 1668 794 1688">lecture</td> <td data-bbox="799 1668 1141 1688">50.0%</td> <td data-bbox="1145 1668 1482 1688">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	laboratory	80.0%	50.0%	lecture	50.0%	50.0%
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lecture	50.0%	50.0%										
Recommended reading	<p>Basic literature</p> <p>Supplementary literature</p> <p>eResources addresses</p>	<p>George Buehler, Buehler's Backyard Boatbuilding, International Marine, Camden 1991.</p> <p>Robert M. Steward, Boatbuilding Manual, 4th Edition, International Marine, 1994.</p> <p>Norman L. Skene, Elements of Yacht Design, Sheridan House, Dobbs Ferry NY 2001.</p>										
Example issues/ example questions/ tasks being completed												

Work placement	Not applicable
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