

Subject card

Subject name and code	, PG_00056286								
Field of study	Ocean Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		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							d Ship	
Name and surname	Subject supervisor		dr inż. Karol Niklas						
of lecturer (lecturers)	Teachers		dr inż. Karol Niklas						
		mgr inż. Alicja Bera							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Familiarisation of student with basic processing ways of material, problems of metroly, kinds of shipyard as well as with main processes of ship erection								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_U06] in compliance with a formulated specification and with the aid of appropriate tools and methods, is able to complete a simple engineering task within the range of design, construction and operation of ocean technology objects and systems		Student is able properly planning of the project realization, define of timetable, cost flow sheet and perform of the risk analysis in relations to project realization.			[SU4] Assessment of ability to use methods and tools			
	specification within the range of					[SU3] Assessment of ability to use knowledge gained from the subject			
	knowledge on design, construction		Student recognizes and knows issues and physical processes in relations to deigned object			[SW1] Assessment of factual knowledge			
Subject contents	Shipyard: arrangement, organization of manufacturing processes, documentation for process of ship manufacturing. Technology of ship erection process: basic definitions. Producibility of structure: technical and economical criterion. General characteristic of processes of ship erection and fitting out. System for preparation of production process: traditional, integrated, CAD, CAM, CAQ, CIM. Ship hull structural materials: basic strength and technological characteristics. Problems of protection against corrosion. Storage of steel materials. Technological processes of manufacturing: characteristic of center for processing, equipment and processes: cutting and bending of steel and aluminum plates and profiles. Processing of special materials. tendencies in development of technological processes: automation and robotics. Center for pretreatment of hull materials. Flat and curvilinear panel production lines. Sectional and block hull arrangement. Prefabrication of sections and blocks. Methods for hull assembly. Methods of launching.								
Prerequisites and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	lecture	60.0%	50.0%			
	labolatory	90.0%	50.0%			
Recommended reading	Basic literature	Ship Construction7th Edition Authors: George Bruce, David Eyres				
Č	Supplementary literature	 E.Baker III: Introduction to Steel Shipbuilding, McGraw-Hill 1953 Kuzminow S.: Swarocznyje deformacji sudowych konstrukcji. Sudostrojenije 1974. Wiebeck E.: Technologie des Schiffskorperbaus. Technik Berlin 1980. 				
	eResources addresses	Adresy na platformie eNauczanie: Technologia budowy okrętu I , W/L, - Moodle ID: 37639 https://enauczanie.pg.edu.pl/moodle	,			
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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