

Subject card

Subject name and code	Ship Production Technology 1, PG_00045030							
Field of study	Ocean Engineering, Ocean Engineering							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022		
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	3		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Ship Manufacturing Technology, Quality Systems and Materials Science -> Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor dr inż. Ryszard Pyszko							
of lecturer (lecturers)	Teachers		dr inż. Ryszar mgr inż. Alicja					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours inclu	uded: 0.0						
	Adresy na platformie eNauczanie: Technologia budowy okrętów I, W/L, BOIJ, sem.03, zimowy 21/22 (O:098010) - Moodle ID: 14422 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14422							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM	
	Number of study hours	30		2.0		18.0		50
Subject objectives	To learn of student with processing of metal, measurement problems, kinds of shipyars as well as with basic methods of ship erection							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		Student applies known methods and tools to solving the measurement problem			[SW1] Assessment of factual knowledge		
	[K6_W08] has knowledge of the principles of sustainable development		for content od project and decides			[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Lectures: Prefabrication centre main characteristics, manufacturing processes of prefabrication. Initial prefabrication. Prefabrication of flat and curved 2 dimensional panels, 3 dimensional units and blocks. Technological division of hull structure, sequence of manufacturing operations; control processes, application of assembly surplus on panels, units and blocks. Auxiliary instrumentation, mechanization, automation and robotization of manufacturing processes, development trends. Manufacturing processes of hull structure assembly, basic rules, stages, sequence of operations. Assembly of typical structural elements, control of distortions, preparation for welding. Instrumentation of assembly works and their mechanization. Transport during hull production process. Concept Design-for-Production, technological-economic criteria. Integration of hull manufacturing processes with equipment processes. Launching of a hull - basics. Technological process of launching from longitudinal and transverse slipways theoretical background, instrumentation and methods of realization of the process, development trends. Characteristics of hull equipment processes. Equipment departments and their goals. Pipes preparation for installation in hull structure. Selected locksmith works. Technological process of rudder and propeller installation. Insulation and painting works. Commisioning tests.							
Prerequisites and co-requisites	Knowledge based on subjects: Podstawy Technologii Okrętów , Podstawy Konstrukcji Okrętu , Rysunek okrętowy , Materiałoznawstwo okrętowe							

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Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Lectures - test	50.0%	50.0%			
	Project - written report	90.0%	50.0%			
Recommended reading	Basic literature	Wiebeck E.: Technologie des Schiffskorperbaus. Technik Berlin 1980. Ship Construction7th Edition Authors: George Bruce, David Eyres				
	Supplementary literature	E.Baker III: Introduction to Steel Shipbuilding, McGraw-Hill 1953 2. Kuzminow S.: Swarocznyje deformacji sudowych konstrukcji.Sudostrojenije 1974. 3. Wiebeck E.: Technologie des Schiffskorperbaus. Technik Berlin 1980.				
	eResources addresses	Technologia budowy okrętów I, W/L, BOIJ, sem.03, zimowy 21/22 (O: 098010) - Moodle ID: 14422 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14422				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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