

Subject card

Subject name and code	Shipbuilding drawings, PG_00060576								
Field of study	Design and Construction of Yachts								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
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	Subject supervisor		dr inż. Cezary Żrodowski						
of lecturer (lecturers)	Teachers	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	30.0		0.0	45	
	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	45		5.0		25.0		75	
Subject objectives	Consolidation of the principles of general technical drawing Introduction to the specificity of ship/yacht drawing Introduction to modern methods of creating ship documentation (3D)								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U02] can work individually and in a team, communicate through various techniques in professional environment and also record, analyse, and present the results of work, can estimate the time needed to complete a given task		The student is able to draw an element of the ship's hull based on a 3D model, recreate a 3D model based on a drawing and assess the correctness of both operations, working in tandem with another student.			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K6_W04] has knowledge in the field of computer science, electronics, electrical engineering, automation and control, information technology, computer graphics, useful for understanding the possibilities of their use in ocean engineering		The student correctly selects the methods of solving geometric tasks and the software supporting them.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W01] has knowledge of mathematics, including algebra, elements of logic, geometry, mathematical analysis, and probabilistic necessary to describe and analyse the operation of yachts and devices installed on them		The student demonstrates the knowledge of geometry at a level that allows for the correct parameterization of 2D sketches and 3D models of ship's hull elements.			[SW3] Assessment of knowledge contained in written work and projects			

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Prerequisites and co-requisites Assessment methods and criteria Recommended reading Basic literature Dobrzański T.: Rysunek techniczny maszynowy, WNT 2014 Romanowicz P.: Rysunek techniczny maszynowy z elementami CAD, PWN 2021 Domański Z.: Rysunek techniczny maszynowy i okrętowy, Wydawnictwo Morskie, 1982 Skupnik D., Markiewicz R.: Rysunek techniczny maszynowy i komputerowy zapis konstrukcji, Kram 2013 Supplementary literature eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed Not applicable Subject passing criteria Passing threshold Percentage of the final grade 100.0% Pobrzański T.: Rysunek techniczny maszynowy z elementami CAD, PWN 2021 Administracy maszynowy i okrętowy, Wydawnictwo Morskie, 1982 Skupnik D., Markiewicz R.: Rysunek techniczny maszynowy i komputerowy zapis konstrukcji, Kram 2013 Supplementary literature e-leatrning course on eNauczanie platform eResources addresses Adresy na platformie eNauczanie: 1. Draw projections necessary to fully recreate a given 3D model of selected ship elements. 2. Build a 3D model based on delivered 2D drawings, identify gaps/ambiguities and convention limitations. 3. Draw a parametric sketch that is consistent when you change the specified parameters within a specified range of values. Work placement Not applicable	Subject contents	 Repetition - the main principles of general technical drawing, natural and conventional drawing. Ship drawing - deviations from the rules of relation to general engineering Theoretical lines, elevation table, convention, quality assessment tools. Master plan, convention, level of detail. Sheathing extension, convention, purpose. Sections (structure drawings) Technological documentation. Documentation of composite and wooden hulls. Sketches, relations, and parameters. Tolerances. Surfaces, continuity classes, relations and parameters. Freeform and d-sub surfaces. 3D models and automatic generation of associative drawings. Manual reconstruction of 3D models from 2D projections. Elements of machine drawing, installation, architectural, used in shipbuilding. Automatic editing of drawing/model, geometry optimization. 					
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example questions/ tasks being completed 2. Build a 3D model based on delivered 2D drawings, identify gaps/ambiguities and convention limitations. 3. Draw a parametric sketch that is consistent when you change the specified parameters within a specified range of values.	Recommended reading	Basic literature Dobrzański T.: Rysunek techniczny maszynowy, WNT 2014 Romanowicz P.: Rysunek techniczny maszynowy z elementami (PWN 2021 Domański Z.: Rysunek techniczny maszynowy i okrętowy, Wydawnictwo Morskie, 1982 Skupnik D., Markiewicz R.: Rysunek techniczny maszynowy i komputerowy zapis konstrukcji, Kram 2013 Supplementary literature e-leatrning course on eNauczanie platform		ny maszynowy z elementami CAD, maszynowy i okrętowy, k techniczny maszynowy i m 2013			
Work placement Not applicable	example questions/	 Build a 3D model based on delivered 2D drawings, identify gaps/ambiguities and convention limitations. Draw a parametric sketch that is consistent when you change the specified parameters within a 					
	Work placement	Not applicable					

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