



Subject card

Subject name and code	Shipbuilding Drawings, PG_00060526						
Field of study	Naval Architecture and Offshore Structures						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2026/2027	
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 Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Cezary Źrodowski					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	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	<ol style="list-style-type: none"> Consolidation of the principles of general technical drawing Introduction to the specificity of ship drawing Introduction to modern methods of creating ship documentation (3D) 						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[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_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_W01] has knowledge in maths, including algebra, elements of logics, geometry, mathematical analysis, theory of probability necessary to describe and analyse the operation of machines and ocean-technology objects		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	

Subject contents	Course content – lecture 1. Repetition - the main principles of general technical drawing, natural and conventional drawing. 2. Ship drawing - deviations from the rules of relation to general engineering 3. Theoretical lines, elevation table, convention, quality assessment tools. 4. Master plan, convention, level of detail. 5. Sheathing extension, convention, purpose. 6. Sections (structure drawings) 7. Technological documentation. 8. Documentation of composite and wooden hulls. 9. Sketches, relations, and parameters. 10. Tolerances. 11. Surfaces, continuity classes, relations and parameters. Freeform and d-sub surfaces. 12. 3D models and automatic generation of associative drawings. Manual reconstruction of 3D models from 2D projections. 13. Elements of machine drawing, installation, architectural, used in shipbuilding. 14. Automatic editing of drawing/model, geometry optimization.			
Prerequisites and co-requisites				
Assessment methods and criteria	Subject passing criteria		Passing threshold	Percentage of the final grade
	Completion of drawing tasks		60.0%	100.0%
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		e-learning course on eNauczenie platform	
	eResources addresses			
Example issues/ example questions/ tasks being completed	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.			
Practical activities within the subject	Not applicable			

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