

Subject card

Subject name and code	Designing architecture of vessels, PG_00064997							
Field of study	Projektowanie architektury środków transportu							
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies		Subject group			Specialty subject group Subject group related to scientific research 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	Division of Hydromechanics and Ship Design -> Institute of Naval Architecture -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology							
Name and surname	Subject supervisor		dr hab. sztuki Paweł Gełesz					
of lecturer (lecturers)	Teachers							
Lesson types	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				Participation in consultation hours		Self-study		SUM
	Number of study hours	45		4.0		26.0		75
Subject objectives	The thematic area co systems (ships), aggi design experiments, (e.g. as part of team development of stude field of transport arch creative thinking, inno creator and coordinal attitudes in the field of	regating interdithe method of swork) and a fine ents' analytical itecture (in partovation and protor of innovation	sciplinary knov successive app al original desi and creative sl ticular ships) th blem solving the n in the field of	vledge in the fie proximations, re gn proposal. Ar kills. Course ob prough the active prough the desi transport archi	eld of tectorial search import jectives ye use continued to the continued	chnolog laborate ant feat : To cre of design cess. A	y. The progra ories, synthe- cure of the pro- eate new con- on mindset, en responsible a	amme includes: sis of results ogramme is the cepts in the nphasising attitude of a

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Learning outcomes Course outcome		Subject outcome	Method of verification					
	[K7_W13] explains the main principles of individual and teamwork organization, including various forms of entrepreneurship utilizing knowledge from the field of engineering and technical sciences and disciplines relevant to the course of study	Student has basic knowledge related to creative work carried out in particular in a small project team.	[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym					
	[K7_U03] identifies and formulates task specifications in the scope of transport systems and processes design, including non-standard problems and taking into consideration their non-technical aspects	Graduate with enhanced skills in organising and planning the design process, taking into account its multidisciplinary characteristics.	[SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania [SU1] Ocena realizacji zadania					
	[K7_U15] evaluates the feasibility of advanced methods and tools for solving complex engineering tasks of a practical nature, characteristic of the field of study, and selects and applies appropriate methods and tools for this purpose	The student has advanced knowledge of the design process. They consciously select and apply analytical and creative methods.	[SU2] Ocena umiejętności analizy informacji [SU1] Ocena realizacji zadania					
	[K7_U13] evaluates the feasibility and potential for utilizing new technical and technological achievements in accomplishing tasks characteristic for the field of study	The student has basic competences related to the design of modern transport systems (in particular intermodal systems operating at the interface between land and water).	[SU4] Ocena umiejętności korzystania z metod i narzędzi [SU1] Ocena realizacji zadania					
Subject contents	Course content – lecture A ship, a floating object considered in contexts that extend the typical technical approach, e.g. as a component of a multimodal transport system.							
	Course content – project Conceptual (ideological) study defining the key features of an innovative facility that could serve as a basis for further design work. The architecture of a floating facility as a field for independent research, methods of organising and implementing the design process, an original approach to a selected issue, teamwork, 3D model, rendering, information report, progress report.							
Prerequisites and co-requisites	Conceptual design drawing, virtual model, teamwork, simple technical drawing, description. Students starting the course should be enrolled in the second year of their second-cycle studies. The requirements in terms of knowledge, skills and competences result from obtaining the required credits, in particular the following are expected: - advanced knowledge of design methods (including teamwork), - competences related to analytical skills and communicating the results of their work using various information techniques. - critical assessment of their knowledge and skills and recognition of the importance of knowledge in solving							
	advanced cognitive and practical problems, including consulting experts - independent integration of acquired and continuously developed competences and experience in order to consciously shape a creative attitude enabling the formulation and solving of complex issues, - fluent knowledge of Polish, both spoken and written.							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	final report (design process doc)	50.0%	50.0%					
	design presentation, speech	50.0%	50.0%					
Recommended reading	Basic literature A.Papanikolaou, Ship Design - Methodologies of Preliminary Design , ISBN: 978-94-017-8750-5 M. Nowak. Metodyka postępowania jako kluczowy element projektowania architektury okrętowej. Na przykładzie projektu koncepcyjnego jednostki badawczej MEWO, doctoral thesis (unpublished, available via the Academy of Fine Arts Library).							
	Supplementary literature	ISBN 83-908796-4-6						
Example issues/ example questions/ tasks being completed	example questions/ attempt to define the technical characteristics of a ship adapted to transport INNO (www.inr							
	An unusual ship a key component of a unique transport system. The objectives of the task are: a) a multifaceted and preliminary conceptual design of a floating object adapted to local transport needs, b) a preliminary study of the key (desired) fundamental characteristics of the efficiency of the potential system, which will form the basis for further design work.							

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Practical activites within	Not applicable
the subject	

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