



## Subject card

Subject name and code	Ship Design I, PG_00060547						
Field of study	Naval Architecture and Offshore Structures						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Optional 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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		4.0		
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 of lecturer (lecturers)	Subject supervisor		dr inż. Tomasz Hinz				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	45.0	0.0	60
	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	60		6.0		34.0	100
Subject objectives	Use of NAPA software in designing, generation of hull form, pre-determination of displacement of the designed vessel, pre-determination of basic main dimensions and block coefficients of hull shape, determination of the position of main structural elements, creation of main ship compartments, preparation of design documentation: general arrangement plan.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U03] can use computer-aided design, production and operation tools for ocean technology objects and systems		The student can carry out basic hydrostatic documentation and a Tank Plan/General Arrangement Plan.		[SU1] Assessment of task fulfilment		
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems		The student has a structured knowledge of engineering methods and design tools to perform projects of construction and operation of ocean engineering facilities and systems		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_K03] is aware of the impact of non-technical aspects on the engineer's work and the impact of engineering activities on the natural environment		Students will be able to analyse non-technical aspects and effects of activities in the engineering profession and their impact on the environment and be aware of responsibility for decisions taken.		[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work		
	[K6_U01] can obtain information from literature, databases and other sources, can verify and organize the obtained information, interpret them and form conclusions and justified opinions		Students can search for and apply the appropriate regulations for a given class of ship.		[SU2] Assessment of ability to analyse information		

Subject contents	Generation of Body Lines		
	Basic hydrostatic documentation		
	Simple Tank plan/General Arrangement Plan		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Report	60.0%	100.0%
Recommended reading	Basic literature	Watson D.G.M.: Practical ship designPapanikolaou A.: Methodologies of Preliminary Design	
		Hirdaris, Spyros: Lecture Notes on Basic Naval Architecture	
		Papanikolaou A.: Methodologies of Preliminary Design	
	Supplementary literature	Schneekluth H.: Ship design for efficiency and economy	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		