

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Designing of Ship Power Plants, PG_00058884								
Field of study	Ocean Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group						
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Ocean Eng Technology	Ship Technology -> Faculty of Mechanical Engineering and Ship							
Name and surname	ame Subject supervisor		dr hab. inż. Damian Bocheński						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Projec		t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		0.0				30	
Subject objectives	Familiarize the student with the basics of designing a ship's power plant								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K7_U06] when forming and solving design tasks can see their non-technical aspects, including environmental, economical and legal ones. Applies HSE rules and regulations		The student is able to apply the learned methods in solving ship power plant design problems			[SU1] Assessment of task fulfilment			
	[K7_W07] has knowledge on the development perspectives of ocean technology objects and systems, knows the newest and most relevant achievements in ocean technology		The student knows about the need to decarbonize water transport			[SW3] Assessment of knowledge contained in written work and projects			
	[K7_W05] has an organized, widened knowledge on design, construction and operation of ocean technology objects and systems		The student knows how to create elements of a ship's power plant project			[SW1] Assessment of factual knowledge			
Subject contents	Creating a list of gyms of similar units. Selection of the main engine and drive system components. Selection of generating sets. Selection of auxiliary boilers. Design of installations: cooling water, lubricating oil, fuel oil, starting air, exhaust gas. Arrangement machines, devices and tanks in the engine room.								
Prerequisites and co-requisites						-			
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	project		100.0%			100.0%			
Recommended reading	ecommended reading Basic literature			 Woud H.K., Stapersma D.: Design of Propulsion and Electric Power Generation Systems. IMarEST, London 2003 Jamroż J., Wieszczeczyński T.,Swolkień T.: Projektowanie siłowni okrętowych. PG, Gdańsk, 1997. Michalski R.:Siłownie okrętowe. PSz, Szczecin, 1987. Wojnowski W.:Okrętowe siłownie spalinowe. Część III.Gdańsk, 1992. PRS: Przepisy klasyfikacji i budowy statków morskich. 					
	Supplementary literature								
	eResources addresses		Adresy na platformie eNauczanie:						

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable