GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00056279		
Field of study	Ocean Engineering		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2022/2023
Education level	first-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	1.0
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. Piotr Bzura	
	Teachers	dr inż. Piotr Bzura dr inż. Daniel Piątek	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0	0.0	15

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	15	2.0	8.0	25

Subject objectives: to acquaint students with the basic information on marine propulsion systems and marine devices

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U04] has self-education skills in order to improve professional qualifications, is ready to work in industrial environment, adheres to HSE rules and regulations	Explains the functioning of the basic elements of propulsion systems and marine devices	[SU3] Assessment of ability to use knowledge gained from the subject
[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	He combines the knowledge of mechanics and physics to identify energy procces in ship's power plant	[SW1] Assessment of factual knowledge

Subject contents: Types of marine propulsion, their classification. Diesel engine solutions - direct, indirect drive. Main drive system components (gears, couplings, bearings, seals). Fundamentals of engine-propeller-hull cooperation. Ship equipment.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	60.0%	100.0%

Recommended reading

Basic literature	Balcerski A.: Siłownie okrętowe. Skrypt Politechniki Gdańskiej 1990.Górski Z., Perepeczko A.: Okrętowe maszyny i urządzenia pomocnicze. Wyd. TRADEMAR 1998.Wojnowski W.: Siłownie okrętowe. Cz I, II i III. AMW Gdynia 1999.
Supplementary literature	*Dr C.B. Barrass: Ship Design and Performance for Masters and Mates*
eResources addresses	Adresy na platformie eNauczanie: Podstawy napędów i urządzeń okrętowych, W, OCE, sem.2, lato 22/23 (PG_00056279) - Moodle ID: 28988 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28988 Podstawy napędów i urządzeń okrętowych, W, OCE, sem.2, lato 22/23 (PG_00056279) - Moodle ID: 28988 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28988

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