University of Gdańsk

Subject card

Subject name and code	Navogation II - laboratory classes , PG_00198808		
Field of study	Marine Hydrography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to practical vocational preparation
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Arkadiusz Narloch	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	15.0	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	1.0	9.0	25

Subject objectives

Mastering skills in the following areas:

navigation (based on the framework training program at the operational level in the deck department in coastal shipping), selected elements of nautical science, and issues related to sea levels and tides for class B hydrographers (based on the framework training program for class B marine hydrographers).

Learning outcomes

Course outcome	Subject outcome	Method of verification
[HML3-U14] is able to use the applicable terminology in presenting and discussing problems related to the field of study	is able to: - define and verify potential navigational hazards - use nautical publications - determine the position of a vessel using terrestrial and electronic methods - navigate safely - determine and calculate compass corrections - plan a vessel's voyage - perform navigational calculations regarding the course and route of a vessel - perform navigational calculations regarding the course and route of a vessel - perform navigational calculations regarding the course and route of the ship	[SU4] test/exam - oral or written
[HML3-U11] is able to use navigation devices, means of technical observation and communication as well as measuring instruments, as well as apply in practice various techniques of measurement and observation in the field of professional activity related to the field of study	is able to: - effectively plan a ship's voyage - navigate safely in coastal waters	[SU4] test/exam - oral or written

Subject contents

1. BASICS OF NAVIGATION

1. Basics of trip planning, taking into account tides and ice navigation.

2. GEODETIC AND CARTOGRAPHIC BASICS OF NAVIGATION

1. Electronic maps.

3. LOXODROMIC NAVIGATION

1. Problems of loxodromic navigation.

2. The course of a loxodrome on a Mercator map.

4. DETERMINING THE POSITION OF A SHIP

1. Technique of performing navigational measurements.

2. Plotting the observed position of a ship from one or more objects.

Prerequisites and co-requisites

This subject is required by the Regulation of the Minister of Infrastructure and Development of 5 February 2014 on framework training programs and examination requirements for deck department seafarers (consolidated text: Journal of Laws of 2023, item 1566): attendance at all classes is mandatory. The Polish Naval Academy allows students to make up up to 20% of excused absences from these classes in a form that allows them to acquire missing knowledge and skills. Students who have passed the course but, due to absences exceeding 20% of classes or who did not make up the classes in a form that allows them to acquire missing knowledge and skills, will not receive an entry in the supplement confirming completion of studies recognized at the operational level in coastal navigation.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
test	51.0%	100.0%

Recommended reading

Basic literature	1. URBAŃSKI J., KOPACZ Z., POSIŁA J.: Nawigacja morska. Część I i II. Wydawnictwo AMW, Gdynia 2000. 2. WOLSKI A.: Pozycja zliczona i obserwowana w nawigacji morskiej. Inżynieria, Szczecin 2016. 3. ŻOŁNIERUK D.: Nakres drogi okrętu. Część I. Wydawnictwo AMW, Gdynia 2016

	Supplementary literature	1. DĄBROWSKI T., CZAPLEWSKI K.: Locja morska. Wydawnictwo AMW, Gdynia 1998 2. WRÓBEL F.: Vademecum oficera wachtowego, TradeMar, Gdynia 2006
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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