

Subject card

Subject name and code	Navigation II (Laboratory), PG_00182380						
Field of study	Marine Hydrography						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
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] 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] 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	knows: The theoretical basis of travel planning and the principles of safe and efficient navigation in various hydrometeorological conditions, taking into account the impact of these conditions occurring in the coastal navigation area.	[SU4] test/exam - oral or written
Subject contents	1. BASICS OF NAVIGATION Basics of trip planning, taking into account tides and ice navigation. 2. GEODETIC AND CARTOGRAPHIC BASICS OF NAVIGATION Electronic maps. 3. LOXODROMIC NAVIGATION Problems of loxodromic navigation. The course of a loxodrome on a Mercator map. 4. DETERMINING THE POSITION OF A SHIP Technique of performing navigational measurements. 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., POŚIŁA 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	1. Determining the calculated position taking into account drift. 2. Determining the calculated position taking into account drift. 3. Determining the calculated position taking into account total drift. 4. Determining the observed position from the measurement of navigation parameters to one, two, and three navigation marks. 5. Using tide tables and calculating the time of occurrence of the desired tide height.	
Work placement	Not applicable	

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