

Subject card

Subject name and code	Navigation II (Lecture), PG_00182386						
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			exam	
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	8.0	0.0	0.0	0.0	0.0	8
	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	8		1.0		16.0	25
Subject objectives	Mastery of navigation knowledge (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-W06] principles of operation and use of navigation devices and systems and issues related to the determination of the position of the object using all available methods	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.	[SW4] test/exam - oral or written
	[HML3-W03] directions of development and the latest discoveries in the field of scientific disciplines forming the theoretical basis appropriate to the field of study	knows the theoretical basis of navigation and positioning using available techniques.	[SW4] test/exam - oral or written
	[HML3-W02] selected phenomena and processes occurring in the hydrosphere, atmosphere, lithosphere and biosphere, their interconnections and relations, as well as practical applications of this knowledge in professional activities related to the field of study	knows the general characteristics and significance of tidal phenomena in navigation	[SW4] test/exam - oral or written
	[HML3-W09] issues related to route planning, safe route determination and monitoring in accordance with international regulations, including sources of information on navigational hazards and ways of obtaining it	knows: The theoretical basis of trip planning and the principles of safe and efficient navigation in various hydrometeorological conditions, taking into account the impact of these conditions in coastal navigation areas. Theoretical basis of trip planning	[SW4] test/exam - oral or written
	[HML3-W01] selected facts, phenomena and processes, as well as methods and theories concerning them, explaining the complex relationships between them, constituting basic general knowledge in the field of scientific disciplines forming the theoretical foundations specific to the field of study	knows methods of determining position using two and three navigational marks	[SW4] 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 Loxodromic navigation. Loxodromic, rhumb, and Mercator triangles. Problems with loxodromic navigation. Loxodrome course on a Mercator map.		
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 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	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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