University of Gdańsk

Subject card

Subject name and code	Navigation II - laboratory classes (simulator), PG_00199116						
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							
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 field of: navigation (based on the framework training program at the operational level in the deck department in coastal navigation), selected elements of nautics and issues related to sea levels and tides for class B hydrographers (based on the framework training program for category B marine hydrographers).						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	[SU6] demonstration of practical skills
[HML3-U14] is able to use the applicable terminology in presenting and discussing problems related to the field of study	is able to: - identify and verify potential navigational hazards; - use nautical publications; - determine the ship’s position using terrestrial and electronic methods; - navigate safely; - determine and calculate compass corrections; - plan the ship’s voyage; - perform navigational calculations regarding the ship’s course and route	[SU6] demonstration of practical skills

Subject contents

2. GEODESY AND CARTOGRAPHIC BASICS OF NAVIGATION

Using navigational charts: navigational hazards on nautical charts, navigational markings, IALA navigational marking system.
Electronic charts.
4. DETERMINING A SHIP'S POSITION
Techniques for taking navigational measurements.
Plotting the observed position of a ship from one or more objects.

Prerequisites and co-requisites

Subject required by the Regulation of the Minister of Infrastructure and Development of February 5, 2014, on framework training programs and examination requirements for deck department seafarers (i.e., Journal of Laws 2023, item 1566): attendance at all classes is mandatory. AMW allows students to make up for up to 20% of excused absences from these classes in a form that enables them to acquire the missing knowledge and skills. Students who have passed the course but, due to absences exceeding 20% of classes or failure to make up for classes in a form that allows them to obtain the missing knowledge and skills, do not receive an entry in the supplement confirming completion of studies recognized at the operational level in coastal shipping.

Assessment methods and criteria

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

Recommended reading

Basic literature	1.URBAŃSKI J., KOPACZ Z., POSIŁA J.: Maritime navigation. Part I and II. AMW Publishing House, Gdynia 2000. 2. WOLSKI A.: Calculated and observed position in maritime navigation. Engineering, Szczecin 2016. 3. ŻOŁNIERUK D.: Ship's route chart. Part I. AMW Publishing House, Gdynia 2016
Supplementary literature	1. DĄBROWSKI T., CZAPLEWSKI K.: Sea Pilotage. AMW Publishing House, Gdynia 1998 2. WRÓBEL F.: Vademecum of the Watch Officer, TradeMar, Gdynia 2006
eResources addresses	

Example issues/ example questions/ tasks being completed	1. Determination of the calculated position taking into account drift. 2. Determination of the calculated position taking into account drift. 3. Determination of the calculated position taking into account total drift. 4. Determination of the observed position from the measurement of navigation parameters to one, two and three navigation marks. 5. Use of tide tables and calculation of the time of occurrence of the desired tidal height.
Work placement	Not applicable

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