University of Gdańsk

Subject card

Subject name and code	Military Aspects of Hydrography - lecture, PG_00201167		
Field of study	Marine Hydrography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2029/2030
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	7	ECTS credits	2.0
Learning profile	practical	Assessment form	credit
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Piotr Bekier	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	25.0	0.0	0.0	0.0	0.0	25

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	25	1.0	24.0	50

Subject objectives

1. To familiarize students with military objects lying on the seabed, their basic properties and principles of operation.
2. Familiarization with safety rules when dealing with underwater objects of military origin.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[HML3-W12] knows and understands, at an advanced level, the key processes occurring in the life cycle of devices, facilities, and technical systems	knows the types of military facilities lying on the seabed and their principles of operation	[SW4] test/exam - oral or written
[HML3-K01] is ready to correctly identify and resolve professional dilemmas, especially in the aspects of security and entrusted property	is ready to correct behavior in the event of detecting underwater objects of military origin	[SK4] test/exam - oral or written
[HML3-K03] is ready to apply economic and legal conditions in the aspect of professional activity related to the field of study	is ready to correct behavior in the event of detecting underwater objects of military origin	[SK4] test/exam - oral or written
[HML3-W13] knows and understands global environmental problems resulting from the development of civilisation, in particular strong anthropopressure in the coastal regions of seas and oceans	knows the safety rules when handling underwater objects of military origin	[SW4] test/exam - oral or written
[HML3-W15] knows and understands labour law and other legal bases related to the profession of hydrographer, in particular health and safety regulations and ergonomic principles	knows the threat posed by underwater military facilities to the marine environment	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Military objects lying on the seabed. Safety measures when handling underwater objects of military origin. Basic information about sea mines. An outline of the history of the use of sea mines in the Baltic Sea - mined water areas. Recognition of mines on a sonogram distinguishing acoustic features. Basic knowledge about the construction and operation of torpedoes and depth charges. Underwater weapons from World War II Methods of identifying and eliminating munitions (weapons) lying on the seabed. Safety aspects during neutralization and disposal of sunken weapons, designation of safety zones for underwater explosions. Organization and legal aspects of collecting and eliminating dangerous and explosive items.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. WITKA S. (red.): Problemy detekcji i utylizacji materiałów niebezpiecznych. Wojskowy Instytut Techniki Inżynieryjnej, Wrocław 2010.</td></tr><tr><td>Supplementary literature</td><td>1. KOMOROWSKI A.: Broń torpedowa. Bellona, 1995</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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