University of Gdańsk

Subject card

Subject name and code	Emergency Management - lecture, PG_00201515						
Field of study	Water Management and Protection of Water Resources						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2028/2029		
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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	practical		Assessment form		exam		
Conducting unit	Department of Hydrology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		Tomasz Kostecki				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		1.0		19.0	50
Subject objectives	To gain basic knowledge of the legal basis and organization of the crisis management system, along with the tasks and competencies of institutions. To become familiar with the work of crisis management centers at the provincial and district/municipal levels. Recognizing and interpreting the causes of emergencies. The impact of natural disasters and, in particular, floods and droughts on the lives of the population, the environment and infrastructure. The role of the hydrological and meteorological service in the crisis management system.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-W03] The student has an advanced knowledge and understanding of the organisation and legal framework of environmental protection, nature conservation and water management, as well as the principles governing the organisation and operation of hydrological and meteorological services and the fundamentals of Integrated Environmental Monitoring.	K_W03 - knowledge and understanding of the crisis management system in the Republic of Poland along with the legal acts, proper discernment of the causes of the emergence of various types of threats: natural, anthropogenic and in cyberspace, terrorist, knowledge and understanding of the functioning of individual services within the crisis management system	[SW1] oral statement/ conversation/discussion
[GWOZWL3-K05] The student has the ability take responsibility for the safety of their own work and that of others, dealing with emergencies, exercising caution in the laboratory and in the field, responsibility for entrusted equipment and apparatus.	K_K05 - is ready to take responsibility for independently made decisions, to fulfill duties for the public interest related to responding to threats	[SK1] oral statement/conversation/ discussion
[GWOZWL3-U03] The student has the ability observe and describe the changes taking place in water management and predict further directions of its development as well as conduct a critical analysis of case studies of problems of water management and protection of water resources in terms of impact on ecological, social and economic systems; natural valorization and assessment of quality of the environment.	K_U03 - ability to observe and describe potential hazards and critically analyze the problems of the impact of hazards on ecological, social, and economic systems based of case studies	[SU1] oral statement/conversation/ discussion

Subject contents

1. Causes (natural and anthropogenic) of emergencies2. Criteria for assessing a crisis situation3. Legal bases of crisis management4. Structure of crisis management in the Republic of Poland5. Natural disasters and their impact on the basic components of protection (population with property, environment, infrastructure)6. Response strategy to natural disasters, especially floods and droughts

Prerequisites and co-requisites

Knowledge of the knowledge of physical and economic geography and the hydrographic division of Poland from the geography lessons within the scope of the secondary school curriculum; knowledge of the subjects studied: general hydrology, basics of water management, meteorology and climatology, legal foundations in environmental protection and water management, socio-economic aspects of water management, water construction and coastal protection, functioning of the hydrological and meteorological service

Assessment methods and criteria

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

Recommended reading

Basic literature	Grocki R. 2012 Zarzadzanie Kryzysowe dobre praktyki. Difin SA Ustrnul Z., Czekierda D., 2009 Atlas ekstremalnych zjawisk meteorologicznych oraz sytuacji synoptycznych w Polsce, IMGW, seria: Atlasy, Sztobryn M. i in. pod redakcją Lorenc H. 2012 Klęski żywiołowe, a bezpieczeństwo wewnętrzne kraju. projekt KLIMAT. T3., Warszawa 2012 Wibig J. i In. 2012. Warunki klimatyczne i oceanograficzne w Polsce i na Bałtyku południowym. Spodziewane zmiany i wytyczne do opracowania strategii adaptacyjnych w gospodarce krajowej. projekt KLIMAT. T1.IMGW PIB, Warszawa 2012 Sztobryn M. i in. Działalność służb hydrologiczno-meteorologicznych Instytutu Meteorologii i Gospodarki Wodnej. Oddział Morski w Gdyni podczas powodzi sztormowej 13-15.10.2009. Raport IMGW PIB.
Supplementary literature	Ustawy z zakresu zarządzania kryzysowego, klęskach i stanach nadzwyczajnych, itp. W. Lidwa, W. Krzeszowski, W. Więcek, zarządzanie w sytuacjach kryzysowych. Warszawa 2010 J. Ziarko, J. Walas-trębacz, Podstawy zarządzania kryzysowego cz.1. Kraków 2010.
eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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