University of Gdańsk

Subject card

Subject name and code	Emergency Management - laboratory classes, PG_00201458		
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	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Department of Hydrology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Robert Sudenis	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	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

Ability to understand the content and procedures of emergency management. Ability to analyze and understand and recognize the main causes of specific emergencies and basic crisis problems caused by natural disasters, especially floods . Preparation and participation in a game simulating the activities of the services during an emergency situation (flood/landslide/whirlwind, etc.). This course prepares the student to independently analyze the basic problems of crisis management, threat assessment and response of state institutions.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-U16] The student is able to demonstrate creativity in working independently and in team, taking on a variety of roles, including a leadership role.	K_U16- ability to work as a team and lead a group through planning and proper organization of work during emergencies, and cooperation between different types of services	[SU2] presentation/project/paper/ report
[GWOZWL3-K08] The student knows and understands engage in professional work in preparation or implementation of projects for the benefit of society.	K_K08 - is ready to plan, design, and implement activities (including projects) during hazards for the benefit of society	[SK8] observation of student's independent or team work
[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 on case studies	[SU2] presentation/project/paper/ report
[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 - He is ready to take responsibility for independently made decisions, fulfill duties for the public interest related to responding to threats	[SK8] observation of student's independent or team work
[GWOZWL3-U04] The student can distinguish between objectives, analyze and evaluate modern strategies for managing environment especially in the context of ecosystem approach to managing human activities in the environment with taking into account relevant law regulations and the indication of administrative bodies responsible for the management of waters and the protection of water resources.	K_U04- the ability to formulate the objective, analysis, and evaluation of the management of crisis situations, the ability to apply relevant legislation, and determine the role and tasks of the services and administrative bodies	[SU2] presentation/project/paper/ report
[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 with legal acts, knowledge and understanding of the functioning of individual services within the crisis management system	[SW2] presentation/project/paper/ report

Subject contents

1. Analysis of the crisis management plan at the provincial level 2. Analysis of forecasting and warning of natural disasters
3. Simulation game of a selected crisis situation 4. Familiarization with the work of crisis management centers at the provincial level

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
student's activity during classes	51.0%	20.0%
completion of a credit work/project	51.0%	80.0%

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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