



Field courses

Educational subject description sheet

Basic information

Study programme Geohazards and Climate Change		Didactic cycle 2023/24
Speciality -		Subject code 07GCCS.22P.02864.23
Organizational unit Faculty of Geographical and Geological Sciences		Lecture languages English
Study level Second-cycle programme		Course type Obligatory
Study form Full-time		Block Basic subjects
Education profile General academic		
Subject coordinator	Małgorzata Szczepaniak	
Lecturer	Małgorzata Szczepaniak	
Period Semester 2	Activities and hours • Field classes: 48, Graded credit	Number of ECTS points 3

Goals

Code	Goal
C1	Familiarizing students with case studies concerning the issues of geohazards and human-environment conflicts.
C2	Providing students with practical knowledge on geohazards and human-environment conflicts.
C3	Making students familiar with practical solutions of geohazards and human-environment conflicts.

Entry requirements

Knowledge about geohazards and human-environment relationships.

Subject learning outcomes

Code	Outcomes in terms of	Learning outcomes	Examination methods
Knowledge - Student:			
W1	knows and understands how geohazards influence environment and human living conditions;	GCC_K2_W01, GCC_K2_W03, GCC_K2_W05, GCC_K2_W07, GCC_K2_W08, GCC_K2_W09, GCC_K2_W11, GCC_K2_W12, GCC_K2_W14	Essay, Report
W2	knows and understands how conventional and unconventional energy influences human living conditions;	GCC_K2_W01, GCC_K2_W03, GCC_K2_W05, GCC_K2_W07, GCC_K2_W08, GCC_K2_W09, GCC_K2_W11, GCC_K2_W14	Essay, Report
W3	knows and understands methods of reclamation of post-mining areas;	GCC_K2_W01, GCC_K2_W03, GCC_K2_W05, GCC_K2_W07, GCC_K2_W08, GCC_K2_W09, GCC_K2_W11, GCC_K2_W12, GCC_K2_W14	Essay, Report
W4	knows and understands methods of reclamation and management of post-flotation wastes.	GCC_K2_W01, GCC_K2_W03, GCC_K2_W05, GCC_K2_W07, GCC_K2_W08, GCC_K2_W09, GCC_K2_W11, GCC_K2_W14	Essay, Report
Skills - Student:			
U1	identifies solutions to prevent geohazards (e.g.: landslides, floods, coastal erosion) as well as social-environmental conflicts;	GCC_K2_U01, GCC_K2_U02, GCC_K2_U04, GCC_K2_U10, GCC_K2_U13, GCC_K2_U14, GCC_K2_U15, GCC_K2_U16, GCC_K2_U17	Essay, Report

Code	Outcomes in terms of	Learning outcomes	Examination methods
U2	identifies methods for reclamation of post-mining areas and post-flotation wastes.	GCC_K2_U01, GCC_K2_U02, GCC_K2_U04, GCC_K2_U10, GCC_K2_U13, GCC_K2_U14, GCC_K2_U15, GCC_K2_U16, GCC_K2_U17	Essay, Report
Social competences - Student:			
K1	is prepared to take in practise actions to prevent geohazards;	GCC_K2_K01, GCC_K2_K02, GCC_K2_K03, GCC_K2_K06, GCC_K2_K07, GCC_K2_K08	Essay, Report
K2	is prepared to take practical actions to prevent conflicts arising from the use of conventional energy sources;	GCC_K2_K01, GCC_K2_K02, GCC_K2_K03, GCC_K2_K06, GCC_K2_K07, GCC_K2_K08	Essay, Report
K3	is prepared to take practical actions in fields of reclamation of post-mining areas and post-flotation wastes.	GCC_K2_K01, GCC_K2_K02, GCC_K2_K03, GCC_K2_K06, GCC_K2_K07, GCC_K2_K08	Essay, Report

Study content

No.	Course content	Subject learning outcomes	Activities
1.	Mass movements in coastal areas - the case study of Baltic seaside.	W1, U1, K1	Field classes
2.	Geohazards of the Polish Lowland - flood environment - the case study of the Oder or Warta valley.	W1, U1, K1	Field classes
3.	Mass movements in mountainous areas - the case study of Sudety Mountains.	W1, U1, K1	Field classes
4.	Environmental effects of the operation of the post-flotation wastes - the case study of Żelazny Most.	W4, U2, K3	Field classes
5.	Conventional energy and human-environment conflicts. Transboundary pollution and reclamation of post-mining areas - the case study of the Turossów Basin.	W2, W3, U2, K2	Field classes
6.	Renewable energy - wind and solar power plants as alternative energy sources.	W2, U1, K2	Field classes

Additional information

Activities	Teaching and learning methods and activities
Field classes	Case study, Problem-based learning

Activities	Credit conditions
Field classes	<p>Elaboration (in advance) of individual essays on the topic assigned by teachers (60% of the final grade). Essay presentation during field course (20% of the final grade). Taking notes during fieldwork - report (20% of the final grade).</p> <p>Grading scale:</p> <ol style="list-style-type: none"> 1. very good (5.0) - from 90% of points, 2. good plus (4.5) - from 80% of points, 3. good (4.0) - from 70% of points, 4. sufficient plus (3.5) - from 60% of points, 5. satisfactory (3.0) - from 50% of points, 6. unsatisfactory (2.0) - below 50% of points.

Literature

Obligatory

1. Will be provided.

Optional

1. Will be provided.

Calculation of ECTS points

Activities	Activity hours*
Field classes	48
Reading the indicated literature	5
Report preparation	15
Semester paper preparation	15
Student workload	Hours 83
Number of ECTS points	ECTS 3

* academic hour = 45 minutes

Efekty uczenia się dla kierunku

Kod	Treść
GCC_K2_K01	The graduate is ready to implement and popularize actions serving the environmental protection
GCC_K2_K02	The graduate is ready to identify the influence of environmental processes onto the socio-economic processes, and also influence of anthropogenic activities onto the various components of the natural environment in various timescales
GCC_K2_K03	The graduate is ready to communicate, discuss and argue burning issues, hazards and problems associated with the climate, climate and environment changes for wider, non-scientific audience
GCC_K2_K06	The graduate is ready to think and act creatively
GCC_K2_K07	The graduate is ready to undertake the cooperation within the crisis management teams and solve the conflicts
GCC_K2_K08	The graduate is ready to take the responsibility for health and safety and the entrusted equipment
GCC_K2_U01	The graduate can vary between natural and anthropogenic causes of climate change and associated environmental changes and geohazards
GCC_K2_U02	The graduate can critically assess future climate change scenarios and associated environmental changes and geohazards
GCC_K2_U04	The graduate can formulate the research hypotheses and conduct environmental research: to plan, to manage and to document
GCC_K2_U10	The graduate can apply health and safety rules and regulations in the office, in the laboratory and in the field
GCC_K2_U13	The graduate can use in practice the environmental management principles leading to improvement of quality of life
GCC_K2_U14	The graduate can describe in extended degree environmental components and their relationships
GCC_K2_U15	The graduate can develop in writing scientific problem associated with the climate change and geohazards
GCC_K2_U16	The graduate can transparently and accessibly present the Earth and environmental sciences topics
GCC_K2_U17	The graduate can cooperate in the team, efficiently plan the work for her/himself and the research/task team
GCC_K2_W01	The graduate knows and understands thoroughly, the processes operating in the natural environment, their causes, mechanisms, consequences and associated geohazards
GCC_K2_W03	The graduate knows and understands thoroughly, endogenic processes, anthropogenic influence on endogenic processes and following from them geohazards
GCC_K2_W05	The graduate knows and understands thoroughly, the causes and the evolution of extreme hydro-meteorological events in global, regional and local scale and their influence on the socio-economical processes
GCC_K2_W07	The graduate knows and understands thoroughly complex socio-economic processes in the local, regional and global scale and their influence on the occurrence of extreme environmental events
GCC_K2_W08	The graduate knows and understands thoroughly, the influence of the climate change, extreme environmental events and geohazards on the socio-economic processes
GCC_K2_W09	The graduate knows and understands thoroughly, relationship between climate and environmental change and necessity of formulation of the adaptation strategies
GCC_K2_W11	The graduate knows and understands advanced laboratory methods and techniques used in the research on the elements of the environment and the environmental processes
GCC_K2_W12	The graduate knows and understands advanced field methods and techniques used in environmental studies

Kod	Treść
GCC_K2_W14	The graduate knows and understands thoroughly, laboratory and field health and safety rules and regulations