



Module name: Hydrogeological English

Academic year: 2015/2016 Code: BGG-1-705-s ECTS credits: 3

Faculty of: Geology, Geophysics and Environmental Protection

Field of study: Mining and Geology Specialty: —

Study level: First-cycle studies Form and type of study: Full-time studies

Lecture language: English Profile of education: Academic (A) Semester: 7

Course homepage: —

Responsible teacher: prof. dr hab. inż. Malina Grzegorz (gmalina@agh.edu.pl)

Academic teachers:

## Description of learning outcomes for module

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Connections with FLO	Method of learning outcomes verification (form of completion)
Social competence			
M_K001	Student is able to analyse hydrogeological conditions and groundwater hazard and protection problems at hand in creative way.	GG1A_K01, GG1A_K03	Presentation, Project
Skills			
M_U001	Student is able to use data bases, english scientific papers and reports.	GG1A_U09	Presentation, Test, Project
M_U002	Student is able to description of hydrogeological conditions and groundwater flow, and prepare related field work report or project. Student have ability to present reports in hydrogeological English.	GG1A_U19, GG1A_U10	Presentation, Project
Knowledge			
M_W001	Students will be have knowlege about hydrogeological vocabulary.	GG1A_W19	Presentation, Test, Project

## FLO matrix in relation to forms of classes

MLO code	Student after module completion has the knowledge/ knows how to/is able to	Form of classes										
		Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning
Social competence												
M_K001	Student is able to analyse hydrogeological conditions and groundwater hazard and protection problems at hand in creative way.	-	+	-	-	-	-	-	-	-	-	-
Skills												
M_U001	Student is able to use data bases, english scientific papers and reports.	-	+	-	-	-	-	-	-	-	-	-
M_U002	Student is able to description of hydrogeological conditions and groundwater flow, and prepare related field work report or project. Student have ability to present reports in hydrogeological English.	-	+	-	-	-	-	-	-	-	-	-
Knowledge												
M_W001	Students will be have knowlege about hydrogeological vocabulary.	+	-	-	-	-	-	-	-	-	-	-

## Module content

### Lectures

Students will be have knowlege about hydrogeological vocabulary.

### Auditorium classes

Study of selected scientific publications and field work reports will be followed by exercises in hydrogeological report writing (including: geology and hydrogeology conditions of the investigated area, groundwater sampling, hydrogeological work performed, data interpretation).

Students will practice analysed and wrieded of hydrogeological papers. The activities will include description of aquifers (porous, fissured, karst), hydrogeological cross-sections, documentations of hydrogeological researach and groundwater samples.

### Method of calculating the final grade

final grade = 0.4 test grade + 0.3 presentation grade + 0.3 project grade

### Prerequisites and additional requirements

Prerequisites and additional requirements not specified

### **Recommended literature and teaching resources**

- 1) scientific papers on hydrogeology (sample),
- 2) Pasierbiewicz K., 2009 — Geological English, Wyd.2 uzup., Wydawnictwa AGH, Kraków, KU 0346,
- 3) Pasierbiewicz K., 2003 — Technical English for students of geology, Wydawnictwa AGH, Kraków, SU 1661.

### **Scientific publications of module course instructors related to the topic of the module**

Additional scientific publications not specified

### **Additional information**

None

### **Student workload (ECTS credits balance)**

Student activity form	Student workload
Participation in auditorium classes	15 h
Participation in lectures	15 h
Preparation for classes	15 h
Preparation of a report, presentation, written work, etc.	10 h
Examination or Final test	1 h
Realization of independently performed tasks	10 h
Completion of a project	10 h
Summary student workload	76 h
Module ECTS credits	3 ECTS