



AGH

AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Faculty of: Mining and Geoengineering

Field of study: Mining Engineering Study level: Second-cycle studies Form and type of study: Full-time studies

Specialty: Underground mining Annual: 2019/2020 Lecture language: Polish

| Code | Module name | Lectures | Auditorium classes | Laboratory classes | Project classes | Conversation seminar | Seminar classes | Practical classes | Fieldwork classes | Workshops | Prace kontrolne i przejściowe | Lektorat | ECTS | E |
|---|--|----------|--------------------|--------------------|-----------------|----------------------|-----------------|-------------------|-------------------|-----------|-------------------------------|----------|-----------|-----|
| Semester 1 | | | | | | | | | | | | | | |
| A. MODUŁY PODSTAWOWE i OGÓLNE | | | | | | | | | | | | | 7 | |
| GIGR-2-101-GP-s | Modern Physics | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-102-GP-s | Statystyka | 15 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-104-GP-s | Environmental Management | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | No |
| B. MODUŁY KIERUNKOWE | | | | | | | | | | | | | 6 | |
| GIGR-2-103-GP-s | Technologia eksploatacji odkrywkowej | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-108-GP-s | Wentylacja i pożary | 30 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | Yes |
| C. MODUŁY KIERUNKOWE WSPÓLNE | | | | | | | | | | | | | 14 | |
| GIGR-2-105-GP-s | Measurement techniques and monitoring in mining engineering | 30 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-106-GP-s | Impact of mining on surface | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-107-GP-s | Design of technological processes in mining | 30 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | Yes |
| GIGR-2-109-GP-s | modeling of deposits | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-110-GP-s | Resource Geology | 30 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | Yes |
| Elective block: H. Moduł humanistyczny, społeczny lub ekonomiczny II.1.s | | | | | | | | | | | | | 3 | |
| The rules for selecting groups/modules: Jeden przedmiot do wyboru | | | | | | | | | | | | | | |
| GIGR-2-112-GP-s | Podstawy negocjacji | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-113-GP-s | Metodyka i prowadzenie szkoleń | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-114-GP-s | Przedmiot humanistyczny, społeczny lub ekonomiczny z bazy przedmiotów obieralnych II.1.s | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |

Study programme - Mining Engineering - 2019/2020

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|-----------|-------------|----------|--------------------|--------------------|-----------------|----------------------|-----------------|-------------------|-------------------|-----------|-------------------------------|----------|------|---|
| Suma ECTS | | | | | | | | | | | | | 30 | |

Semester 2

| B. MODUŁY KIERUNKOWE | | | | | | | | | | | | | 22 | |
|---|---|----|----|----|----|---|---|----|---|---|---|----|----------|-----|
| GIGR-2-201-GP-s | Technologia eksploatacji złóż węgla kamiennego | 15 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | Yes |
| GIGR-2-202-GP-s | Exploitation technology of ore deposits | 15 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | Yes |
| GIGR-2-203-GP-s | Salt mining techniques | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-205-GP-s | Systemy mechanizacji w górnictwie | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-207-GP-s | Inżynieria strzelnicza w górnictwie podziemnym | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-209-GP-s | Eksploatacja w warunkach skrzepowanych | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-211-GP-s | Associated hazards in mining | 15 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | Yes |
| GIGR-2-213-GP-s | Reorganizacja kopalń podziemnych | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| Elective block: F. MODUŁY KIERUNKOWE OBIERALNE | | | | | | | | | | | | | 6 | |
| The rules for selecting groups/modules: Wybór przedmiotów o zadanej łącznej liczbie punktów ECTS. | | | | | | | | | | | | | | |
| GIGR-2-204-GP-s | Technologia wydobycia węgla brunatnego | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-206-GP-s | Ocena oddziaływania na środowisko przedsięwzięć górniczych | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-208-GP-s | Maszyny przepływowe w górnictwie | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-210-GP-s | Zarządzanie przedsiębiorstwami górniczymi | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-212-GP-s | Wzbogacanie surowców | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-214-GP-s | Metody numeryczne w geomechanice | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-215-GP-s | Rock and soil field investigations | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-216-GP-s | Obudowa wyrobisk podziemnych i tuneli | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-217-GP-s | Rozdrabnianie i klasyfikacja surowców | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-218-GP-s | Technologia przeróbki kruszyw mineralnych | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-222-GP-s | Wydobycie i obróbka skał blocznych | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-223-GP-s | Koło naukowe/Badania naukowe | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 2 | No |
| Elective block: Język obcy specjalistyczny | | | | | | | | | | | | | 2 | |
| The rules for selecting groups/modules: Student wybiera jeden z języków obcych | | | | | | | | | | | | | | |
| GIGR-2-219-GP-s | Język angielski B2+ - obowiązkowy kurs języka specjalistycznego na studiach II stopnia dla studentów Wydziału Górnictwa i Geoinżynierii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 2 | Yes |
| GIGR-2-220-GP-s | Język niemiecki B2+ - obowiązkowy kurs języka specjalistycznego na studiach II stopnia dla studentów Wydziału Górnictwa i Geoinżynierii | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 2 | Yes |
| GIGR-2-221-GP-s | Russian B2+ course - compulsory course for students of SECOND-CYCLE STUDIES | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 2 | Yes |
| Suma ECTS | | | | | | | | | | | | | 30 | |

Semester 3

| B. MODUŁY KIERUNKOWE | | | | | | | | | | | | | 3 | |
|------------------------|--------------------------------|----|----|---|----|---|---|---|---|---|---|---|---|----|
| GIGR-2-301-GP-s | Specjalne technologie górnicze | 15 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| Moduły specjalizacyjne | | | | | | | | | | | | | 2 | |

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|---|--|----------|--------------------|--------------------|-----------------|----------------------|-----------------|-------------------|-------------------|-----------|-------------------------------|----------|-----------|----|
| GIGR-2-304-GP-s | Diploma seminar | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| Thesis | | | | | | | | | | | | | 20 | |
| GIGR-2-305-GP-s | M.Sc. thesis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | No |
| Elective block: G. MODUŁY OBCOJĘZYCZNE OBIERALNE | | | | | | | | | | | | | 3 | |
| The rules for selecting groups/modules: Wybór przedmiotów o zadanej łącznej liczbie punktów ECTS. | | | | | | | | | | | | | | |
| GIGR-2-302-GP-s | Cooling load | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-306-GP-s | Eksploatacja ługownicza w złożach soli kamiennej | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-307-GP-s | Principles of Data and Process Mining | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-308-GP-s | Fluid Flow Machines | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-309-GP-s | Economy of mineral processing | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-310-GP-s | Databases in environmental monitoring | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-311-GP-s | Analysis of the company and management problems | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-312-GP-s | Mining CAD | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-313-GP-s | Paraseismic influence on the environment | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| GIGR-2-314-GP-s | Mining and Reclamation | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | No |
| Elective block: M | | | | | | | | | | | | | 2 | |
| The rules for selecting groups/modules: Student wybiera jeden moduł | | | | | | | | | | | | | | |
| GIGR-2-303-GP-s | Wybór z AGH UBPO | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-315-GP-s | Protection of industrial heritage | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| GIGR-2-316-GP-s | Spatial Planning and Landscape Architecture | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | No |
| Suma ECTS | | | | | | | | | | | | | 30 | |

Łączna liczba godzin zajęć

1650