

MSc in Mining Engineering

An EIT-Labelled MSc program that provides a comprehensive approach to resource management, emphasizing a holistic value chain and addressing the gap between raw material supply and demand

The programme is designed to prepare students with up-to-date specialised practical knowledge about the sustainable exploitation of raw materials throughout the value chain: sourcing, processing, use, recycling, and back to sourcing. In addition, the RaVeN MSc fosters creativity, innovation and entrepreneurship, preparing graduates to implement innovative solutions at their workplaces, or to start and run their businesses successfully.

Graduates of the RaVeN programme will be awarded diplomas from AGH University of Science and Technology and TU Bergakademie Freiberg, in addition to the EIT Label certificates.

CORE ASPECTS:

- Securing raw materials supply
- Sustainable Discovery and Supply
- Exploration and raw materials resources assessment
- Mining in challenging environments
- Recycling and material chain optimization for End-of-Life products
- Design of products and services for the circular economy

EIT LABEL

The RaVeN programme has received the EIT Label, a quality seal awarded to top Master and PhD programmes that excel in shaping a new generation of students into game changers and innovators. Students of EIT Label programmes learn how to transform their specialist knowledge with key innovation and entrepreneurship skills into sound solutions to pressing societal challenges.

STUDY PROGRAMME

The curriculum is designed to equip students with expertise in sustainable extraction, processing and end-use of raw materials. The comprehensive approach of combining academic and expert knowledge will translate into awareness of, and concern for, the raw materials value chain sector in Europe. The process of knowledge acquisition will be carried out with close cooperation with a broad spectrum of stakeholders – including SMEs and large corporations.

ECTS	120 ECTS
DURATION	24 months
LANGUAGE	English
START DATE	October 2023
GRADUATION	June-July 2025
LOCATION	Cracow (Poland) and Freiberg (Germany)

1st SEMESTER (31 ECTS)

In semester one, AGH University's Department of Civil Engineering and Resource Management provides students with the necessary fundamental skills in topics areas such as geology and innovative mining, supported by economic, social and environmental courses.

2nd SEMESTER (29 ECTS)

In semester two, AGH University's Faculty of Non-ferrous Metals expands on the knowledge gained during semester one and provides students with a more advanced understanding of metallurgical processing with sustainability in mind.

3rd SEMESTER (33 ECTS)

During semester three at TUBAF, students have the opportunity to gain an in-depth and comprehensive understanding of environmental issues, recycling and circularity.

4th SEMESTER (27 ECTS)

Semester four at AGH University is a graduate semester, focused on preparing a master's thesis in close collaboration with an industrial partner or research center, which will also host students for an internship.

PRESS RELEASES

- ↓ • Successful application to the EIT Label!
- ↓ • RaVeN officially started with a kick-off meeting in Poland!
- ↓ • First day of Conference of Responsible Business!
- ↓ • The successful conclusion of the Responsible Business Conference at AGH UST!
- ↓ • RaVeN at XXXII School of Underground Mining (SEP)!
- ↓ • RACE 2023 – The Raw and Circular Economy Expedition
- ↓ • International event at AGH UST
- ↓ • RaVeN Info Day: Part 1
- ↓ • RaVeN Info Day: Part 2
- ↓ • RaVeN Business training and general trends in the raw materials value chain
- ↓ • A field trip to Wieliczka Salt Mine
- ↓ • Field trip: New trends in the mining technologies and mineral processing
- ↓ • Staff training on Integral Leadership Development Program
- ↓ • Field trip: site of mining and industrial machinery manufacturer SANDVIKTUCHY
- ↓ • Field trip: Saint-Gobain Construction Products Polska sp. z o.o. 'Borkow' gypsum quarry & RIGIPS Stawiany construction materials plant
- ↓ • Field activities in Machów-Piaseczno and the Osiek sulfur mines
- ↓ • Field activities in Waste Disposal Plant Sp. z o.o., Municipal Utilities Enterprise and Silesian Museum
- ↓ • Field activities in Guido Coal Mine

MEDIA



Promo video



Booklet



Brochure

PARTNERS



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Die Ressourcenuniversität.
Seit 1765.



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