

Wrocław University of Science and Technology





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Wroclaw University of Science and Technology

GeoLi Networking Event BrineRIS project

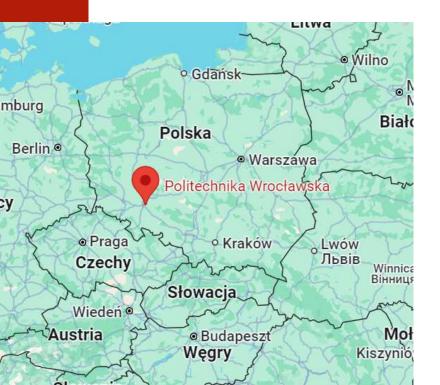


Faculty of Geoengineering, Mining and Geology



Wrocław University of Scien and Technology

The University is using its current name since 1945. It was established and organised by scientists from Lviv and Warsaw. Since the very beginning of its existence, it has been an important centre of technical education.



Today it is one the best technical universities in Poland:

24 984 students study here under the guidance of over 2 100 academic teachers, at 14 Faculties in Wrocław and 3 branches in Jelenia Góra, Legnica, Wałbrzych







Discover our Faculty

- > The Faculty was established in 1968
- In February 2013 we moved to the new Geocentrum building
- Since November 2019 we have a new laboratory building GEO-3EM beside Geocentrum
- The GEO buildings are connected with the main
 WUST campus by a cable car
- Our campus is close to the city center but it is very green and quiet

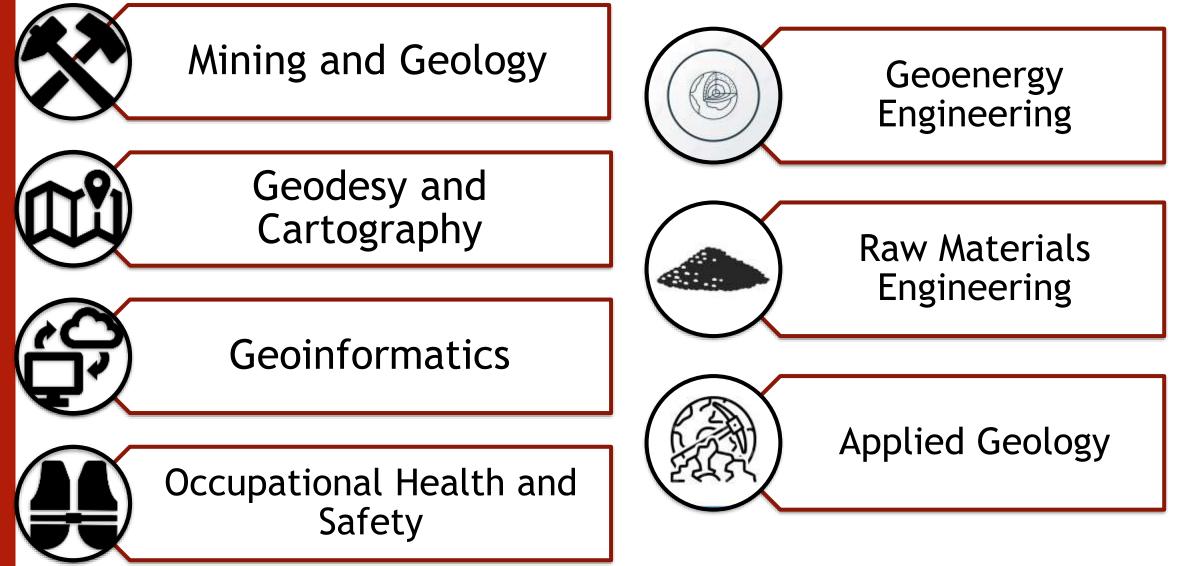








Fields of studies





RawMaterials

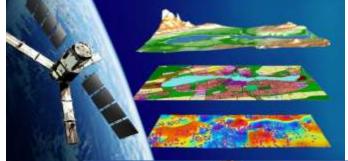
Master programs in English

- Field of study: Mining and Geology
- Specialisations:
- Mining Engineering
- Geotechnical and Environmental Engineering
- Geomatics for Mineral Resource Management
- Mineral Resource Management (TIMREX) -Partners: University of Miskolc, University of Zagreb, Lulea University of Technology
- Master in Entrepreneurship, Innovation and Technology Integration in Mining (MEITIM) -

Partners: Technical University of Madrid, Lappeenranta-Lahti University of Technology

Field of study: Geodesy and Cartography Specialisation – Geodata Engineering









Understand Experience Share Discover





Faculty of Geoengineering, Mining and Geology in numbers

STUDENTS IN TOTAL: 720

- Full time students app. 90%
- Part time students app. 10%
- Diploma issued 120 (in 2022)

Student admission 2019-2023

Geoenergy Engineering (GEN)

Raw Materials Engineering (ISM)

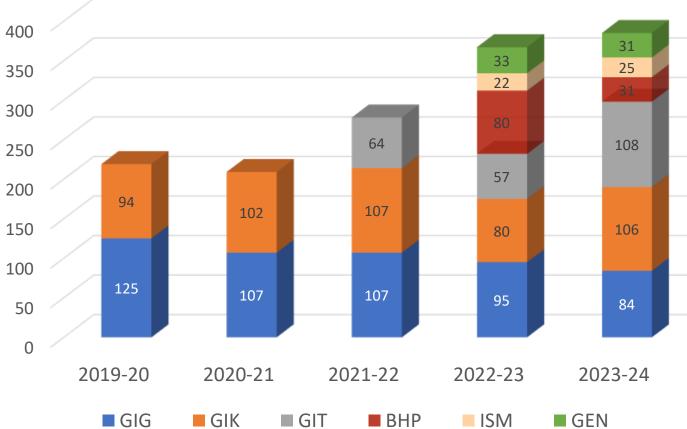
Occupational Health and Safety (BHP)

Geoinformatics (GIT)

Geodesy and Cartography (GIK) Mining and Geology (GIG)

ACADEMIC TEACHERS: 82

Professors 27 (+ 3 Visiting professors) Assistant Professors 55







Student Activity Mining traditions





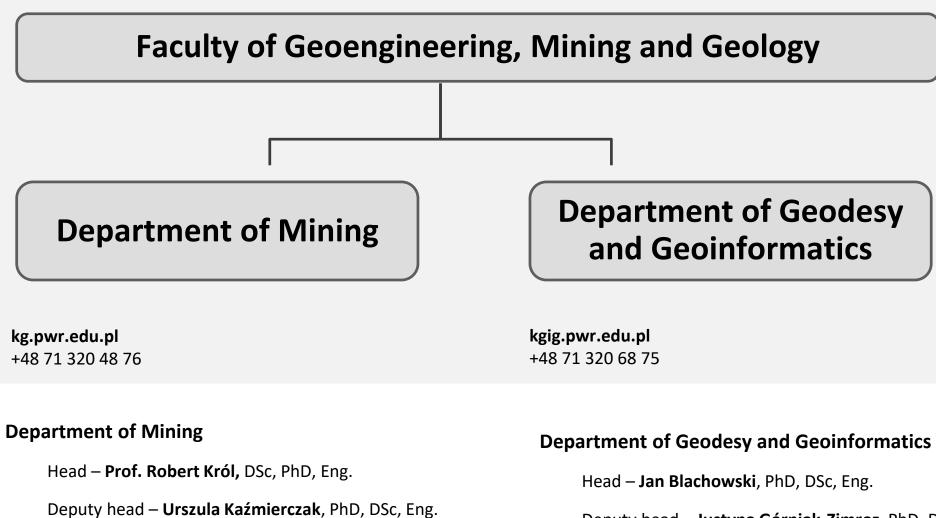
Student Activity

Student research groups:

- "THE MINER"
- GROUP OF YOUNG GEODESISTS
- GIS RESEARCH GRUP
- "REVIMINING"
- "SAFETY TEAM"
- GEOSCIENCE RESEARCH GROUP



Faculty Structure



Deputy head – **Zbigniew Krysa**, PhD, Eng.

Deputy head - Justyna Górniak-Zimroz, PhD, DSc, Eng.

Deputy head - Anna Kopeć, PhD, Eng.







GEO-3EM - ENERGY ECOLOGY EDUCATION

Laboratory of Earth Sciences and Mineral Engineering Laboratory of Modelling Technology in Mining Laboratory of Machine Systems in Mining Accredited Belt Conveying Laboratory Accredited Work Safety Laboratory



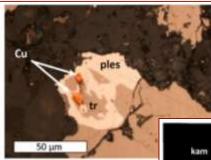


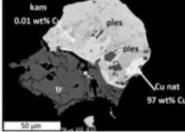


University of Science and Technology





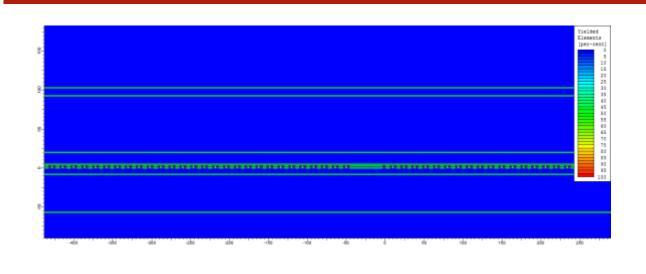




Laboratory of Earth Sciences and Mineral Engineering



Laboratory of Modelling Technology in Mining

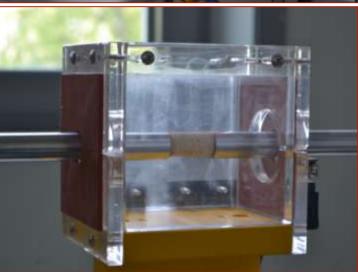








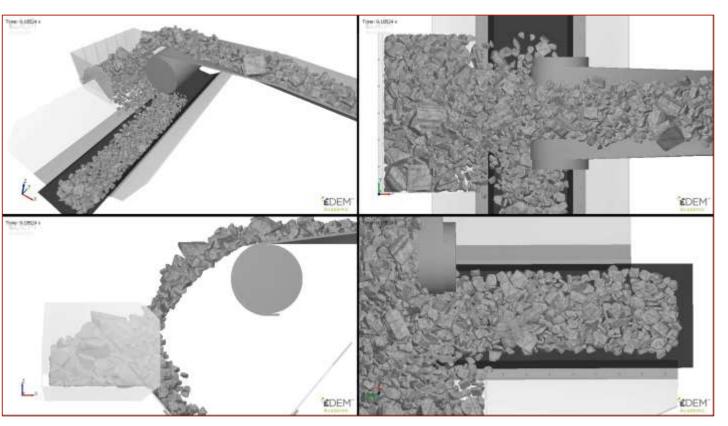






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Laboratory of Machine Systems in Mining



Accredited Belt Conveying Laboratory

TEST OF STRENGTH AND ELONGATION OF THE BELT

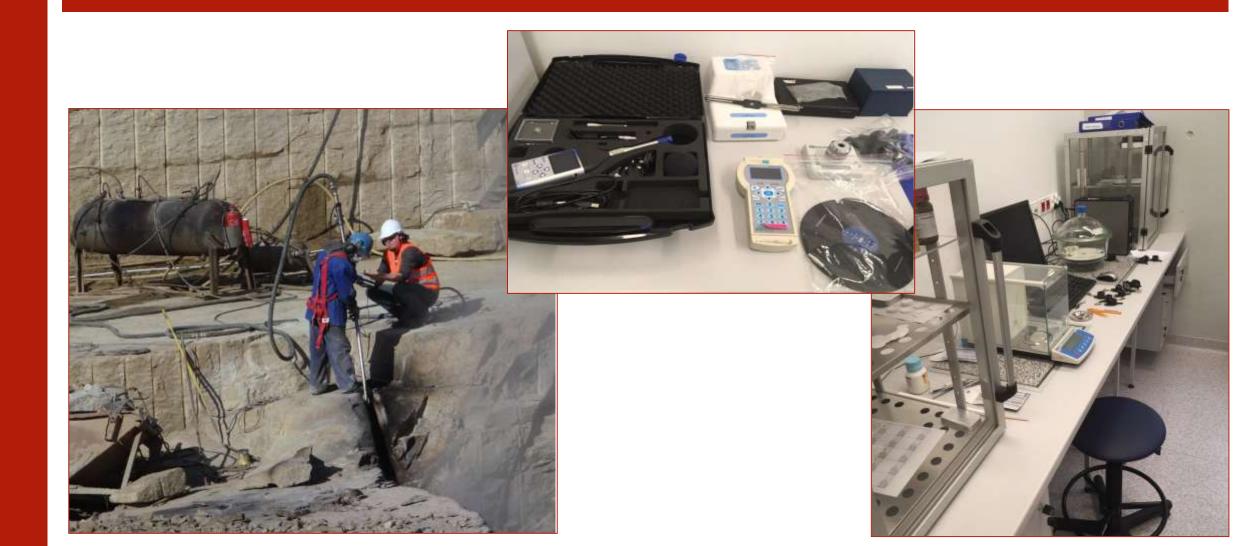
> TESTING THE STRENGTH PROPERTIES OF RUBBER

ABRASION RESISTANCE TEST

n



Accredited Work Safety Laboratory





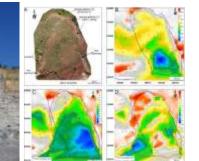
Modern Geodesy for Mineral Exploration and Mining

Mobile Laser Scanning System (MLS LiDAR)



Landslides and quarries monitoring

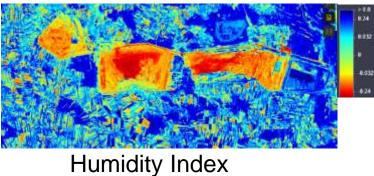




Remote sensing (Sentinel)



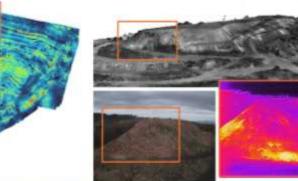
Vegetation Index NDVI



Photogrammetry







Identification and monitoring of post-mining heat islands

Data nalone 26.04.2023



Digital Mining Center

Mobile Inspection Robotics, Monitoring, Diagnostics and Modeling of Processes, Machines and Environment



















International research projects - currently ongoing

- Electrical Computerised Hammering Operator (ECHO)
- Brines of RIS countries as a source of CRM and energy supply (BrineRis)
- Ventilation Optimizing Technology based on 3D-scanning (VOT3D)
- Closed-Loop Impact Monitoring for Environmentally and Socially Acceptable Energy Transition in Rural Regions (CLEAR)
- New technology for hydrogen and geopolymer composites production from postmining waste (H2GEO)
- Smart Sustainable and Multifunctional Use and Management of Forests (SILVA NYMPHA)
- Advancing Post-Mining Waste Dump Safety and Sustainability (MidSafe)
- Miniaturized Robotic Systems for Autonomous In-Situ Exploration of Critical Raw Materials In Deep Land Deposits (MINOTAUR)



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HR EXCELLENCE IN RESEARCH





