



Date: 12.12.2016.

Place: Novi Sad

Knowledge **FO**r Resilient **soCiEty**

KICK-OFF MEETING

*University of Tuzla
Faculty of Mining, Geology and Civil
Engineering*



Co-funded by the
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*The University of Tuzla was established in **1976** and today it includes more than **50 study** profiles in various disciplinary fields.*

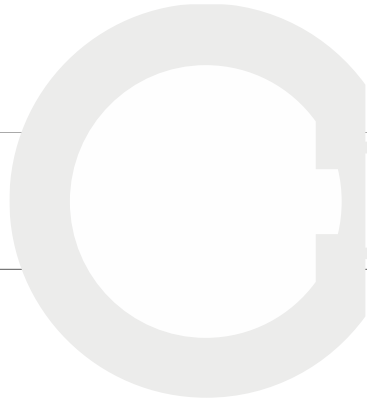
- *implementing teaching-scientific process at undergraduate and postgraduate levels of study, spread across **13 faculties**, and involving around **13.000 students, 741 academic** and administrative staff members.*
- *study programs in bachelor, master's and doctoral studies.*
- *leading higher education institution in the area of the North East Bosnia and Herzegovina*
- *has signed over 70 cooperation agreements with the universities worldwide and is focused on developing relationships with the academic community and strengthening the international process.*

More at: www.untz.ba



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Faculty of Mining, Geology and Civil Engineering, Tuzla

*Faculty of Mining, Geology and Civil Engineering was established as the Faculty of Mining in **1960**.*

*With the establishment of the Department of Geology in **1973** The Faculty of Mining was renamed the Faculty of Mining and Geology.*

- *Department of Civil Engineering established in **1998** (Faculty of Mining, Geology and Civil Engineering)*
- *Department of Petroleum Engineering established in 2000*
- *Department of Safety and Health Administration in 2004.*

5 departments:

- Mining
- Geology
- Civil Engineering
- Petroleum Engineering
- Safety and Health Administration

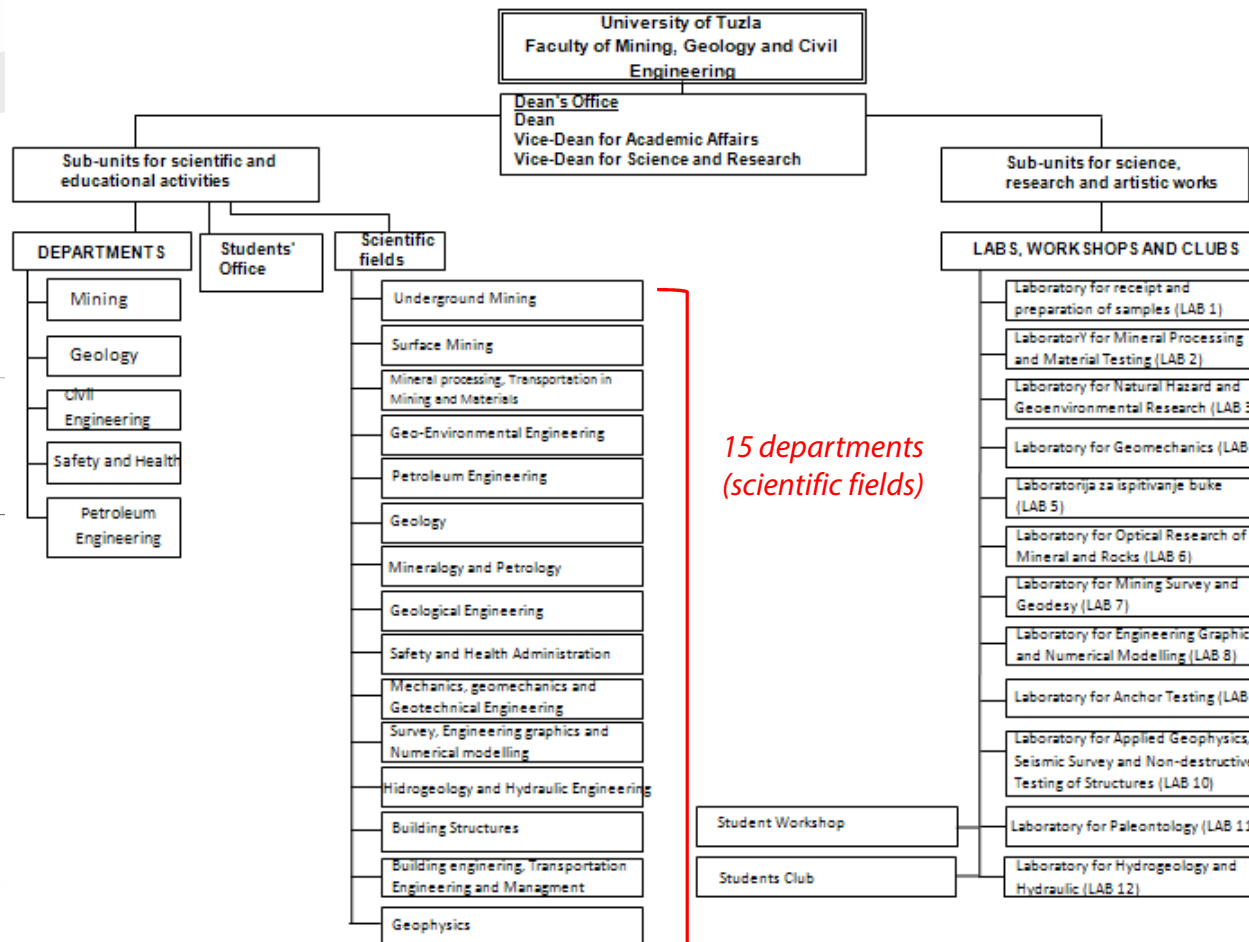


1300 students

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Faculty of Mining, Geology and Civil Engineering, Tuzla



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Faculty of Mining, Geology and Civil Engineering, Tuzla

- more than 2700 students graduated
- more than 300 completed master's thesis
- more than 100 completed doctoral thesis

Teaching Staff from other universities and Experts from Industry:

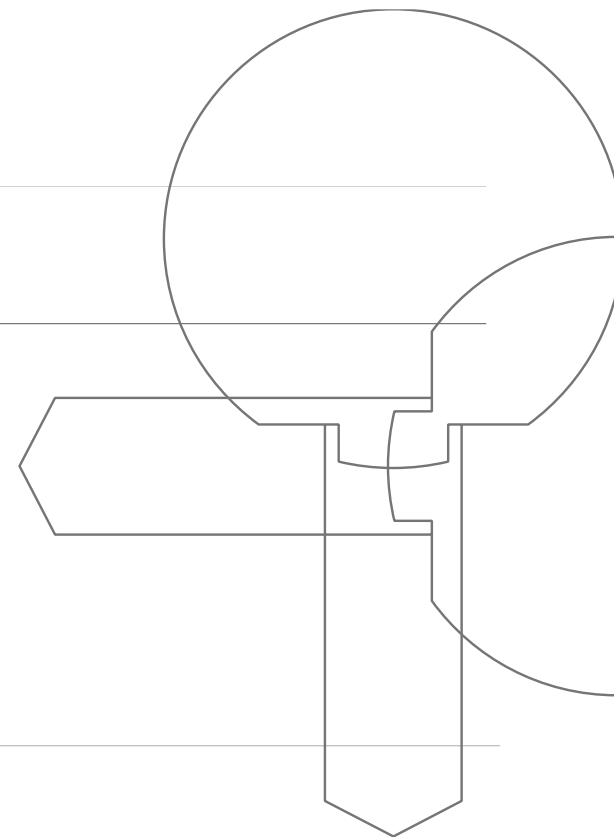
Professor	12	
Associated Professor		22
Assistant Professor	8	
Higher Assistant		1
Assistant	1	
Lab Staff	2	
Experts		more than 20



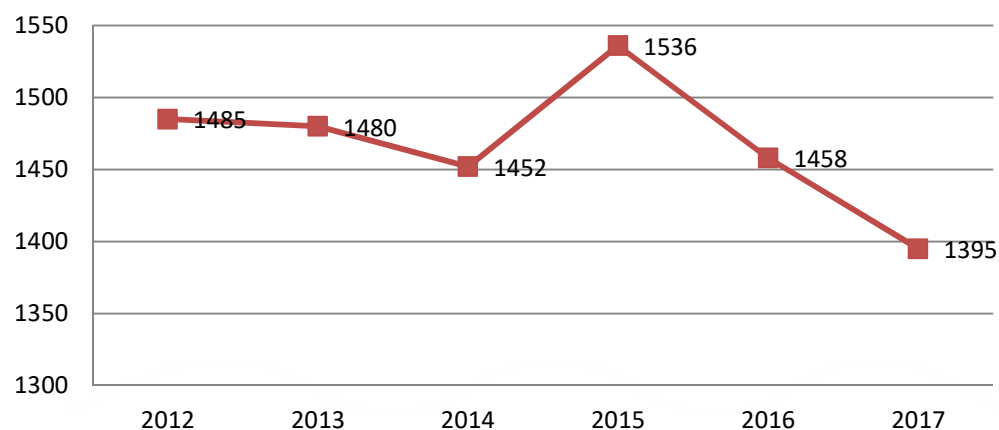
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Since 2008 the faculty began with undergraduate studies (240ECTS) conformed to the Bologna Declaration and in 2012 will start graduate (60ECTS) and postgraduate (doctoral) (180ECTS) university studies.



Number of students in the last five years



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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Partly equipped laboratories

LAB 2 – Laboratory for Mineral Processing and Material Testing



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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Newly equipped laboratories

LAB 3 – Laboratory for Natural Hazard and Geoenvironmental Research



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Science and Research / Partly equipped laboratories

LAB 4 – Laboratory for Geomechanics



1. Classification testing of soil and rock



2. Shear strength soil testing



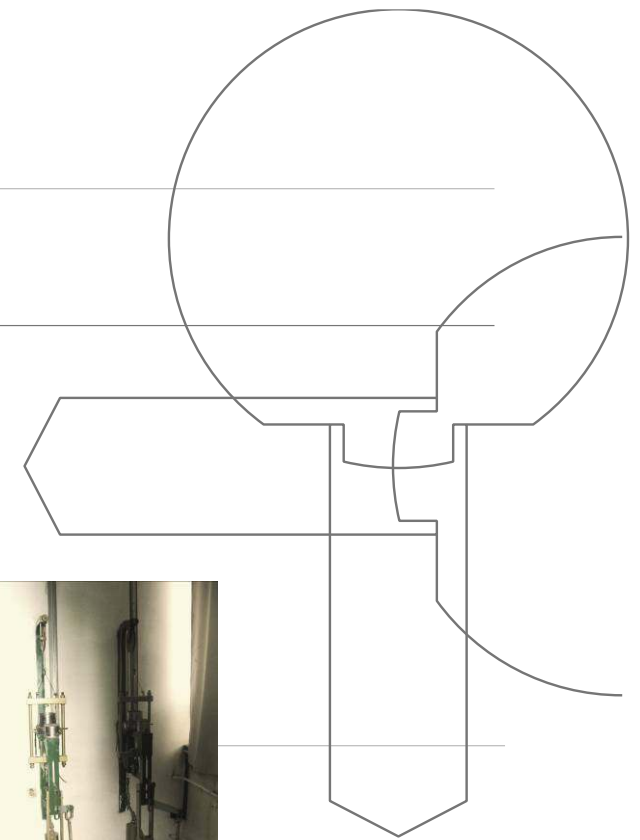
3. Deformability of soil



4. Strength of rock



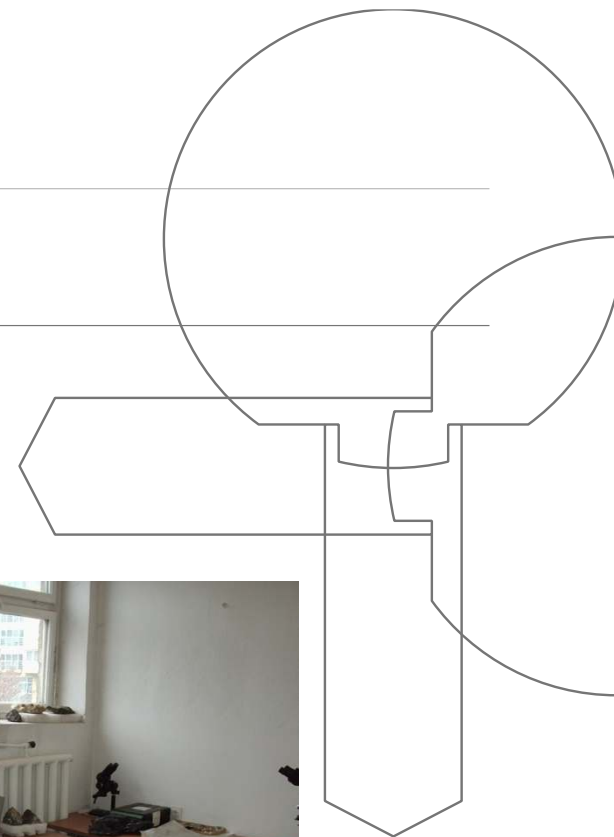
5. Deformability of rock



Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Newly equipped laboratories

LAB 6 – Laboratory for Optical Research of Mineral and Rocks



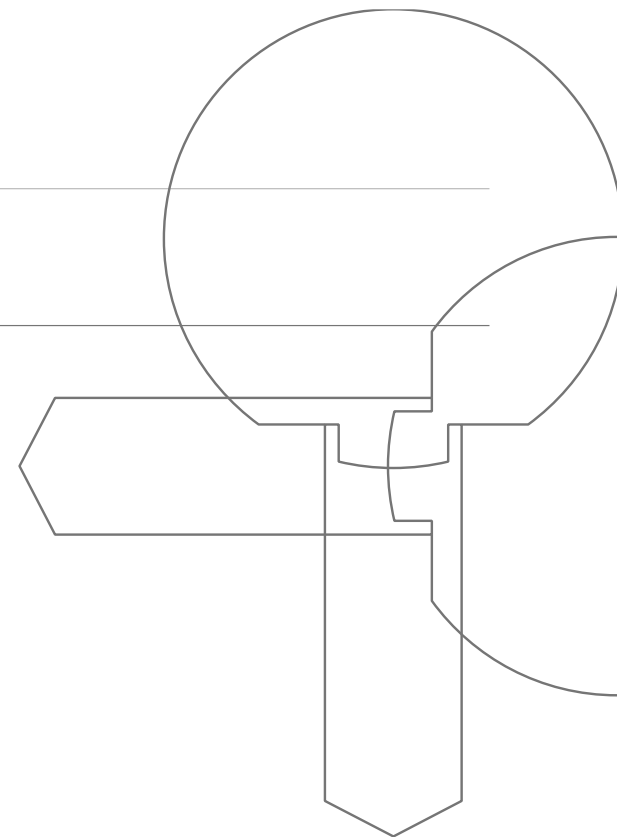
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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Newly equipped laboratories

LAB 7 – Laboratory for Mining Survey and Geodesy



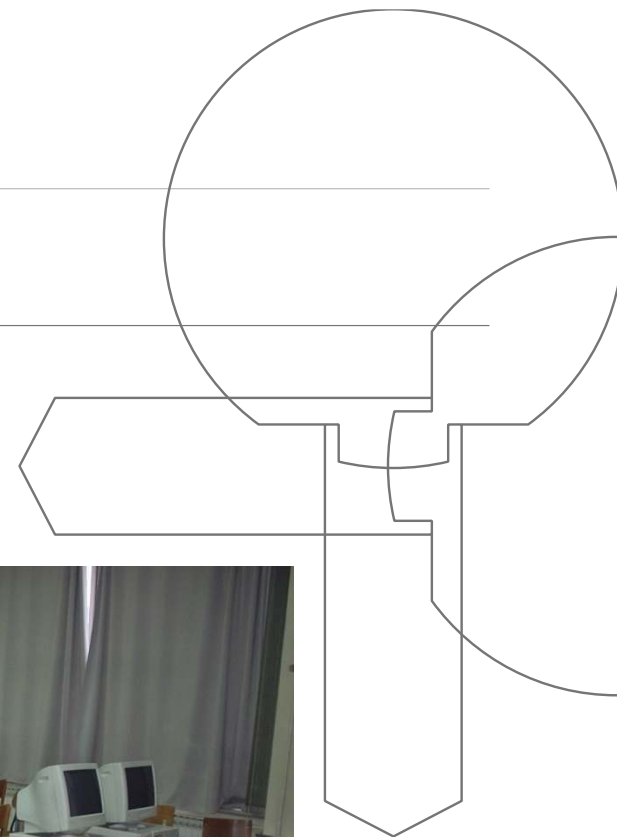
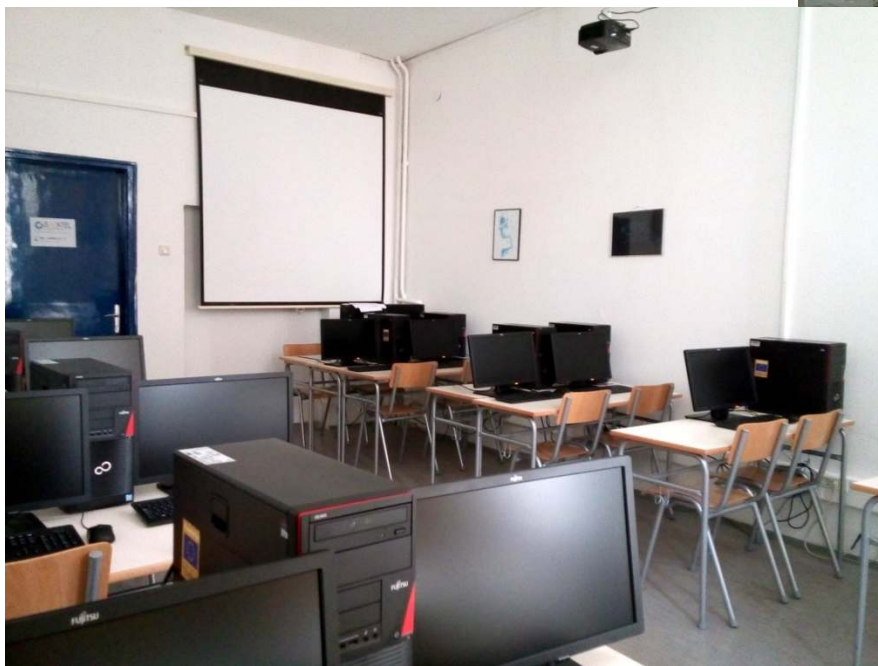
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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Newly equipped laboratories

LAB 8 – Laboratory for Engineering Graphics and Numerical Modelling



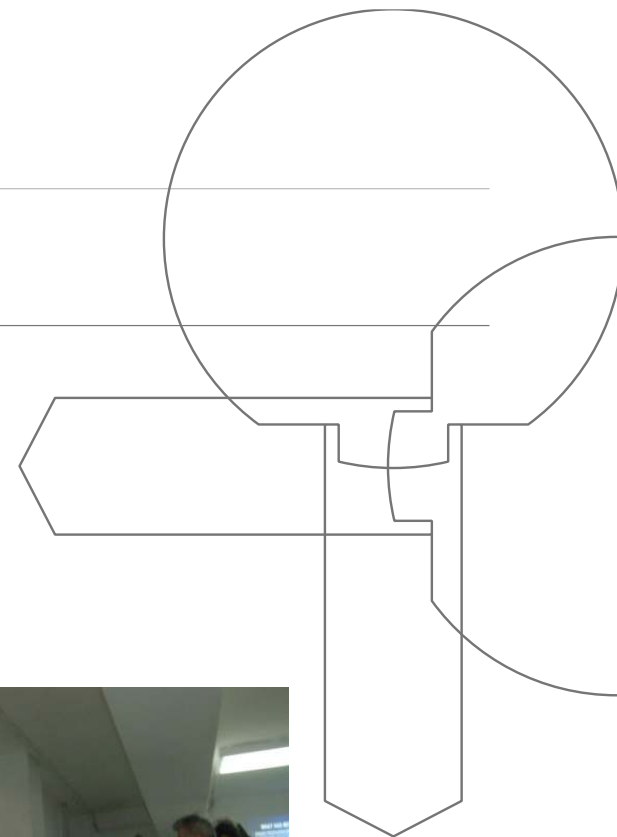
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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research / Newly equipped laboratories

LAB 10 – Laboratory for Applied Geophysics, Seismic Survey and Non-destructive Testing of Structures



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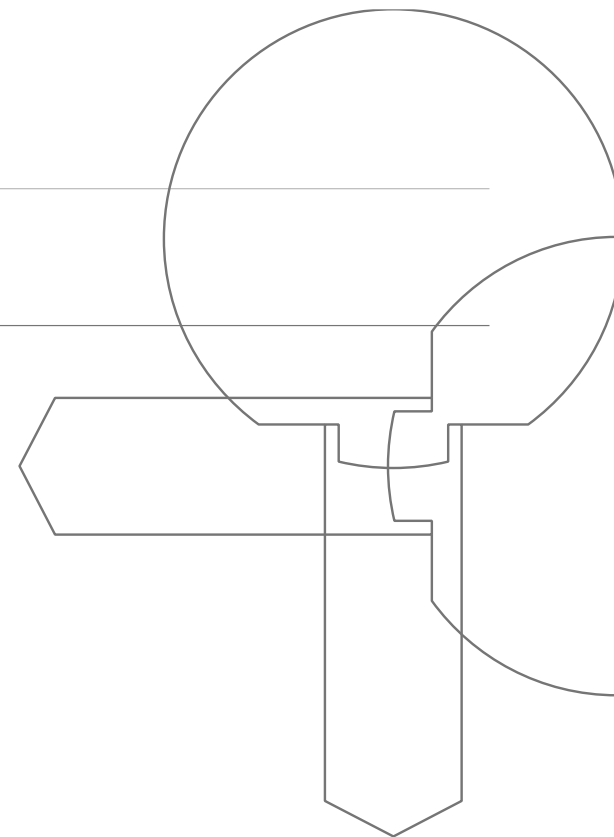
Science and Research / Labs in the preparation

LAB 5 – Laboratory for Testing of Noise

LAB 9 – Laboratory for Anchor Testing

LAB 11 – Laboratory for Paleontology

LAB12 – Laboratory for Hydrogeology and Hydraulic



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Faculty of Mining, Geology and Civil Engineering, Tuzla

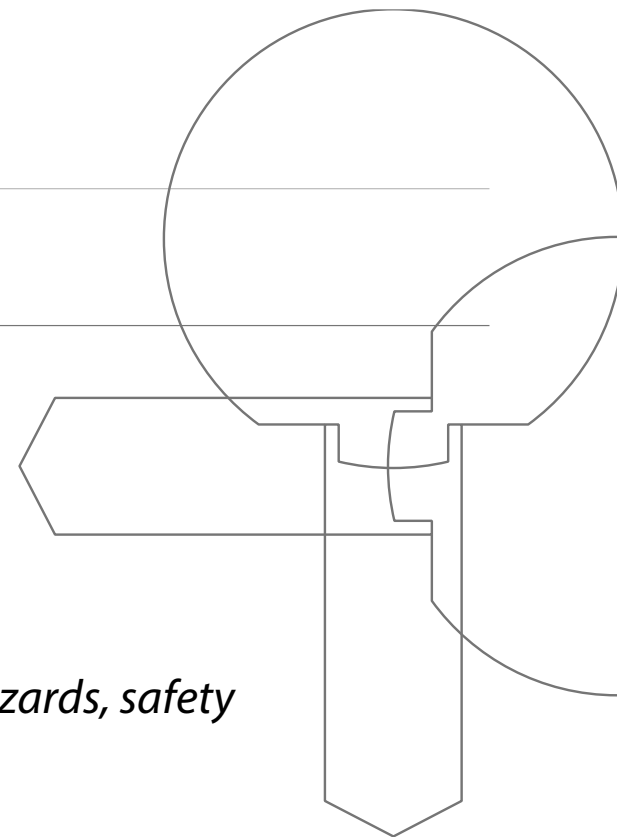
Science and Research
Implemented Scientific projects and Expertise

Educational and intervention center for aerology, natural hazards, safety and ecology in the mining (WUS-CEP) program

Tempus Phare Joint European Project Nr. AC-JEP-14377-1999: The curriculum and education in the field of soil ecology

DAAD Project - Protecting the environment

Study of Regional Solutions for Small States Quality Assurance of Higher Education: Bosnia and Herzegovina, UNESCO, Department for Higher Education Paris;



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Faculty of Mining, Geology and Civil Engineering, Tuzla

Science and Research
Implemented Scientific projects and Expertise

Strengthening Higher Education in Bosnia and Herzegovina, The European Commission, Council of Europe

Feasibility Study on The Middle Bosnia and Tuzla Coal Mines for the Federation of Bosnia And Herzegovina;

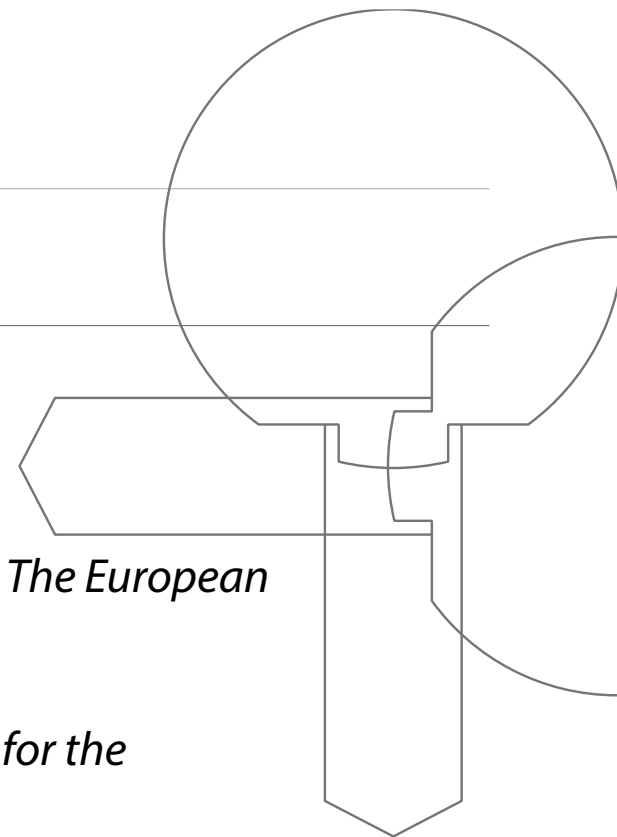
NATO SfP 983305 „ Development of a Monitoring System to Counter-manage the Risks of Subsidence Deformation on the Population of Tuzla“ 2009-2012

NATO SfP 983828 „Seismic upgrading of Bridges in South-East Europe by Innovative Technologies“ 2009-2013

TEMPUS BAEKTEL (544482-TEMPUS-1-2013-IT-TEMPUS-JPHES) 2013-2017



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Science and Research
Future Scientific projects and Expertise

Research in the fields:

Durability of structures

Non-destructive evaluation of structures

Soil-structure interaction

Monitoring, analyses and mitigation measures of landslides

Geotechnical parameters of hard soil-soft rock

Determination of gold content in Lasva River

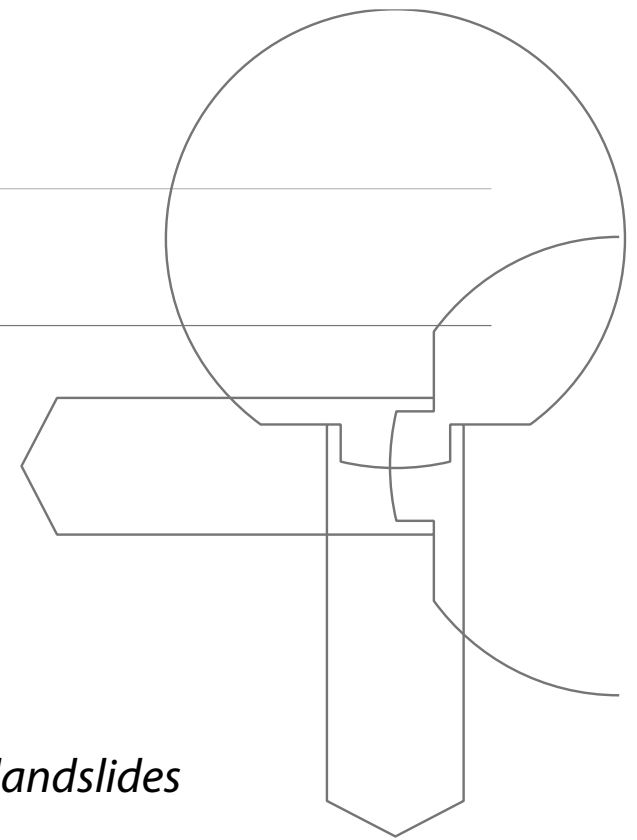
Optimization of noise level production processes in the function of the application of ergonomic working and living environment in surface mining

Hydrogeological research of Spreca Faults

Water Managment

Fluid Tracing Studies

Environmental Impact of Abandoned Mines



Science and Research
Future Scientific projects and Expertise

Research in the fields:

*Major accidents in industry and mining, prevention,
and the ability to respond*

Geoenvironmental Risk Management (ISO 31000:2009)

Rural development environment affected by mining works

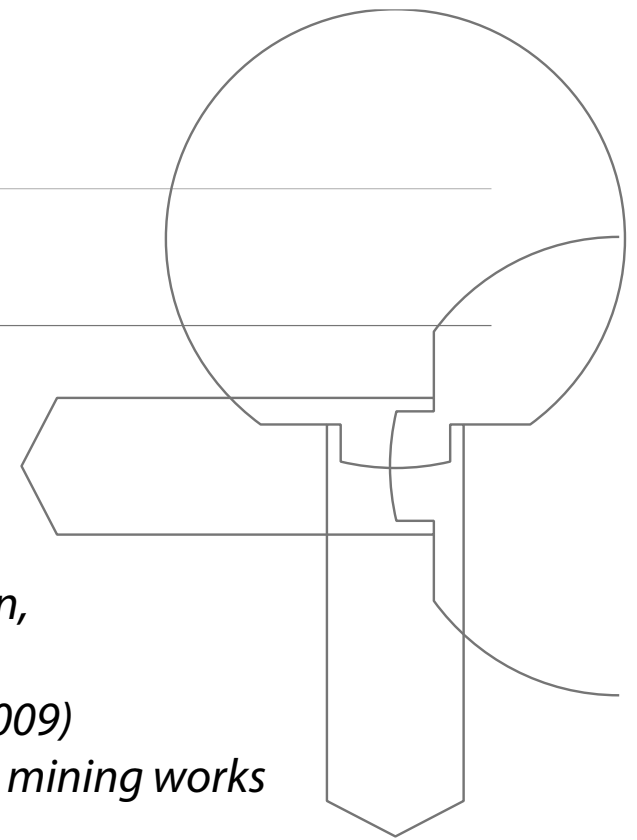
Research of geothermal resources

Optimization of coal production in terms of using waste

Research the possibility of production of materials from non-metallic minerals

Application of Finite element method in the analysis of anisotropic rocks

Numerical modeling of composite panels (masonry structures)



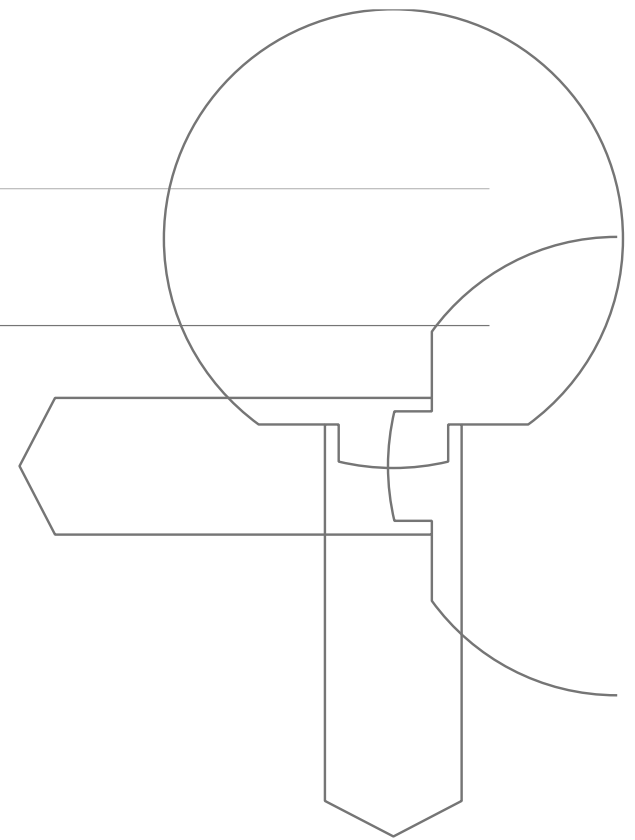
Software

*ADINA, GGU (Landslides), Sofistik, Tower, MAP INFO, FLUENT,
VULCAN*

Made at The Faculty:

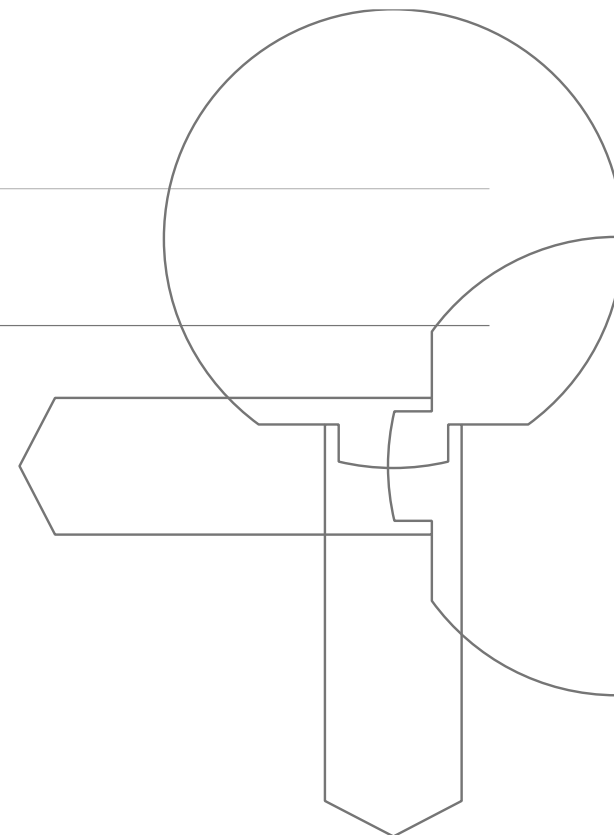
REAME 2011

BISHOP (Fortran, elastic and plastic analysis)



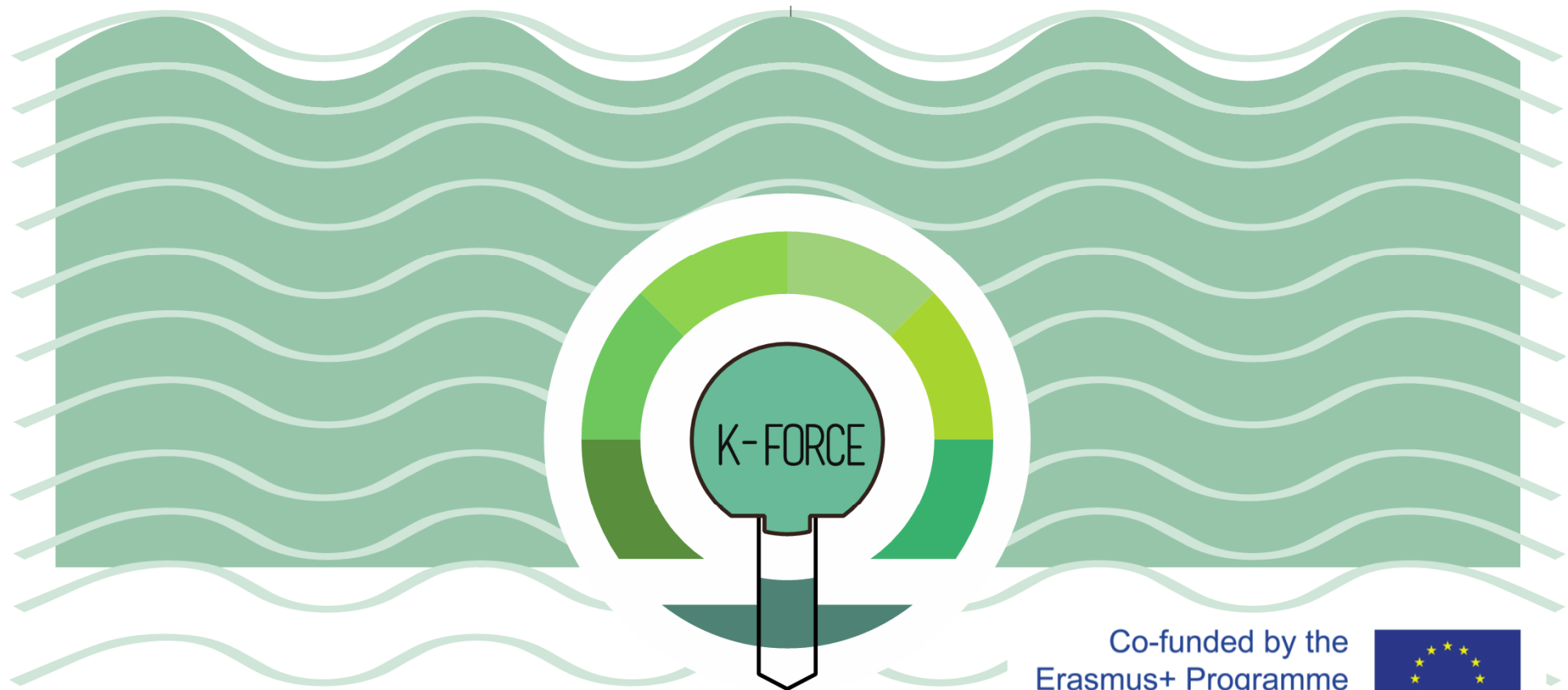
International Cooperation

*University Kassel
Akademia Górniczo-Hutnicza, AGH, Krakow
Polytechnika Krakow
Technical University of Wroclaw
Mining Institute Moscow
Faculty of Mining, Miskolc, Hungary
Mining Institute USA
Mining Academy Freiburg, Germany
University Bologna Italy
Faculty of Technical Sciences Novi Sad
Faculty of Mining Belgrade
Faculty of Mining and Petroleum Engineering Zagreb
Institute IGH Zagreb
RWTH Aachen, Germany,
University Kaiserslautern, Germany
Institute IZiS Skopje, SS Cyril and Methodius University Skopje
Faculty of Civil Engineering, Tirana
Faculty of Civil Engineering, Osijek
Faculty of Civil Engineering, Sarajevo
Faculty of Mining Prijedor
Faculty of Technical Sciences Bihac etc.*



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Thank you
for your attention

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