

Chair for Mine Surveying and Applied Geophysics

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Surveying and Geophysics are disciplines of Mining Science dealing with underground space, including its geometric dimensions and physical properties. Current pedagogical, scientific and professional fields mostly

cover the following disciplines:

- Mine surveying (elementary geodesy, mine survey) and Geotechnology (engineering geodesy, geotechnical measurements):
 - Spatial survey and cartographic documentation of mining spaces and other underground structures;
 - Surface objects survey (quarries, landfill areas, etc.);
 - Deformation Analysis
 - Geometry of ore deposits.
- Geophysical surveying in mining and geotechnology:
 - Geological setting exploration for mineral prospecting, large civil engineering projects and oil mining;
 - Application and development of specific geophysical research methods and instruments for geotechnical tasks;
 - Mining site ecology:
 - Exploration of roof caving above mining faces and consequences on the transformation of surface;
 - Monitoring survey of landslides and landfill locations mainly for remediation and safe operation.

Both disciplines, with a tradition in classic mining, can successfully face modern problems through the use of a broad range of geotechnical knowledge.

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