

Field of Study 7 - Environmental Geotechnics

Master of Science in Environmental Engineering

Students of this FoS acquire knowledge regarding interactions between geotechnical structures and the environment as it applies to landfill construction, site remediation, groundwater protection for traffic route engineering, and sustainable handling of construction material and by-products from industrial production. They understand the mechanical and hydraulic properties of soil, rock and mineral residuals. Students are familiar with legal requirements and fundamental methods of foundation engineering and soil mechanics in order to design geotechnical structures and measures to protect the environment.

Required Modules

- NN Geotechnical issues in environmental engineering
- NN Ground water handling and sustainable use of geomaterials in civil construction

Elective Modules

- BV500003 Unsaturated Soil Mechanics
- BV500005 Building with Geosynthetics for Environmental Engineers
- NN Erd-, Dammbau, Tailing-Dämme
- NN Laboratory and field tests for geoenvironmental purposes
- NN Soil dynamics and geotechnical earthquake engineering
- WZ1647/
WZ1648 Altlastensanierung
- WZ2047 Bodenschutz
- WZ0357 Bodenmikrobiologie
- BGU67001 Landslides
- BGU54017 Environmental Remediation Strategies
- BV150050 Environmental Geology / Geochemistry
- NN Modeling of groundwater/ surface water Interaction

Pending module codes will be updated before the beginning of the semester.