



Application and Admission

Applicants who fulfil one of the following requirements qualify for the programmes:

- a master degree from a technical university in a related field
- a bachelor degree from a technical university in a related field and a minimum of 3 years of professional experience
- a degree from a technical college and minimum 5 years of professional experience (for Certificate Programme only)
- good command of English language

Applicants have to send in the completed registration form, a CV and copies of degrees.

Application deadline: 31 July 2013

Admission is based on the review of the applications and if required on interviews with the candidates or a test.

Number of participants

Maximum 30 students per programme

Degree

Successful participants of the University Certificate Programme are awarded the occupational title "Academic NATM Engineer". Participants of the Master's Programme receive the title "Master of Engineering".

Attendance Fee

Certificate Programme: 12.000 Eur (no VAT)
 Master's Programme: 16.000 Eur (no VAT)

Organization & Accommodation

The courses will be held in Graz and Leoben. Both cities are university cities with a large number of students and a vital everyday life. Graz has got an international airport and a train station. Leoben can be easily reached by train in one hour from Graz.



Jointly organized by University of Leoben and Graz University of Technology

For students from abroad, we can assist in finding adequate accommodation. There are a number of dormitories and guesthouses in Graz and Leoben, where one can stay for a longer period at a reasonable price. If you need any assistance or have additional questions, do not hesitate to contact:

■ Prof. Wulf Schubert

TU Graz
 Email: NATM@tugraz.at
 Phone: +43 316 873-8114
 Fax: +43 316 873-8618

■ Prof. Robert Galler

MU Leoben
 Email: robert.galler@unileoben.ac.at
 Phone: +43 3842 402-3400
 Fax: +43 3842 402-6602

Application forms and detailed information:

► www.natm.at



University Certificate Programme & Master's Programme

NATM-Engineer

Start: 9 September 2013

Jointly organized by Graz University of Technology and University of Leoben

Aim of the Programmes

The University Programmes „NATM-Engineer“ were created to satisfy the continuously increasing worldwide demand for qualified tunnel engineers and aim at increasing the skills of the participants in the fields of geotechnical engineering and tunnelling, with an emphasis on the “New Austrian Tunnelling Method” (NATM).

The degree holders shall be enabled to accomplish tunnelling projects on their own in the face of geotechnical, structural, organizational, contractual and economic needs according to the latest state of the art.

Programme Options

The University Certificate Programme, leading to the degree “Academic NATM Engineer” lasts four semesters. Optionally participants can add another two semesters and receive the title “Master of Engineering” (Master’s Programme).

Participants

The programmes address civil engineers, geotechnical engineers and engineering geologists who do have a distinctive technical education and aim at a specialization in tunnelling.

Future fields of work may be planning, design and consulting of underground projects for engineering offices, or construction management for contractors and owners.

Courses

- Introduction to the „New Austrian Tunnelling Method“
- Investigation and Engineering Geological Methods
- Laboratory Methods
- Characterization and Classification
- Geotechnical Design
- Analysis
- Tunnel Layout
- Site Organization and Construction Management
- Construction Contract
- Risk Analysis
- Tunnel Safety
- Monitoring/Data Evaluation and Interpretation
- Instrumentation
- Grouting (Master)
- Excavation by Blasting and Roadheader (Master)
- Basics of TBM Tunnelling (Master)

Preparation of a thesis is mandatory. A final exam concludes each programme.

Lecturers

The majority of the lectures will be held by the professors Galler, Schubert, Kieffer and Schweiger. In addition lecturers from industry will contribute to special issues.

Teaching Method and Language

The teaching method is teacher-centred to mediate the necessary skills. Field trips to construction sites will round off the courses. Participants are encouraged to develop and realize projects in team work.

All courses will be taught in English.

Duration and Organization

The University Certificate Programme lasts 4 semesters and is valid 61 ECTS-Credits, while the Master’s Programme lasts 6 semesters with 90 ECTS-Credits.

The courses will be held in 4, respectively 5 modules lasting three weeks each, allowing participation parallel to the job.

Programmes start every second year.
Planned start of the next programmes:
September 2013

Preliminary schedule:

- MODULE 1:
9 September 2013 to 27 September 2013
held in Graz
- MODULE 2:
22 April 2014 to 9 May 2014
held in Graz
- MODULE 3:
15 September 2014 to 3 October 2014
held in Leoben
- MODULE 4:
7 April 2015 to 24 April 2015
held in Leoben
- MODULE 5:
14 September 2015 to 2 October 2015
held in Graz

The last semester is reserved for the preparation of the master’s thesis.