Benefits of the Modular Study Structure

Take advantage of the many benefits of a Master's programme with a modular structure:

— Individual Design
Choose from a wide range of modules relevant to you to advance your career.

— Step-by-Step Qualification
Earn recognised (intermediate) degrees (MC, CAS, DAS) that document your progress and expand your qualifications.

— Direct Application
Immediately apply the knowledge you have gained in practice and benefit directly from new competencies.

Imprint
Publisher: TU Graz, Rechbauerstraße 12, 8010 Graz. Published and responsible for the content: TU Graz Life Long Learning, Münzgrabenstraße 36/I, 8010 Graz.
Design/Layout/Composition: CONVERSORY, Communication and Marketing TU Graz.
Images: © TU Graz – Schubert, Piki; © Montanuniversität Leoben – Galler.
Printing: Printservice, TU Graz. Changes, printing, and typesetting errors reserved. 09/2024.

Obtain a **Master's degree** and/or **Certificates** from Austria's leading technical universities, which are recognised and valued by employers worldwide.

Spring 2025
Start of the first Microcredentials and Certificate of Advanced Studies.

Language of Instruction
Optional: German and/or English.

Facts

Participation Fees
1.500 Euro

Degree
Graduates will receive one of the following degrees depending on the chosen format: MC, CAS, DAS, AE, or MSc (CE).

Registration and further information
www.natm.at

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MONTAN UNIVERSITÄT LEOBEN

TU Graz

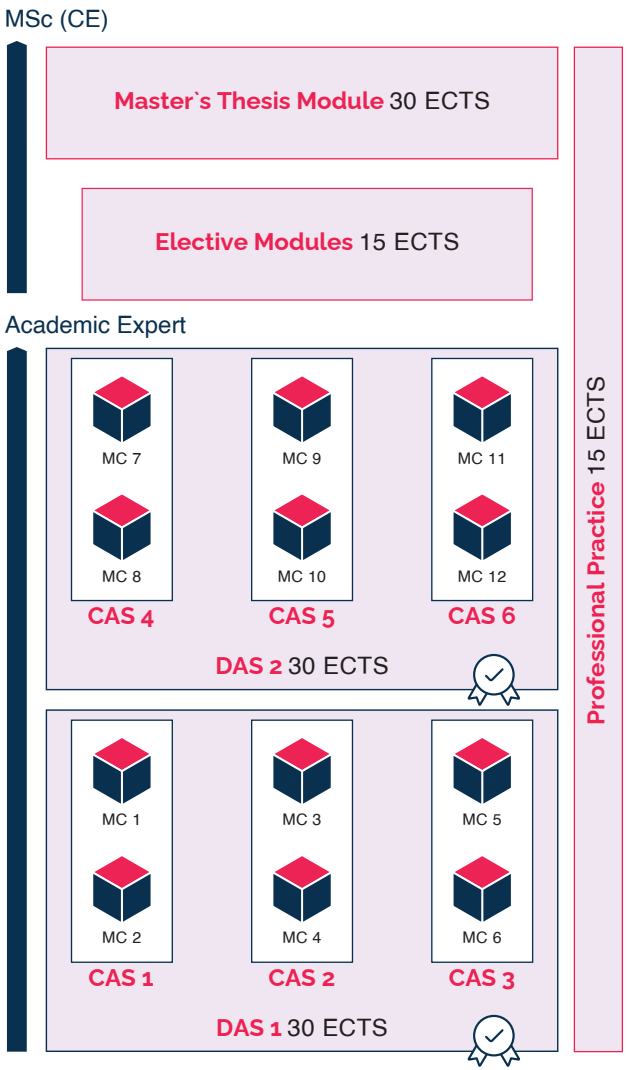
Joint NATM Master of Science

Construction, Rehabilitation and Operation of NATM- & TBM-Tunnels

Joint NATM Master of Science

LIFE LONG LEARNING

Jointly developed and implemented by TU Graz and Montanuniversität Leoben



Content

CAS 1
MC 1: Investigation / Exploration Concepts and Parameter Evaluation
MC 2: Geological, Geotechnical and Numerical Models

CAS 2
MC 3: NATM- and TBM-Technologies
MC 4: Tunnel Design Methods

CAS 3
MC 5: Ground Modelling
MC 6: Excavation and Support Techniques incl. Pratical Work

CAS 4
MC 7: Data Science and Machine Learning in Geotechnical Applications
MC 8: BIM in Tunnelling

CAS 5
MC 9: Special Construction Methods Related to Underground Infrastructure
MC 10: Health and Safety in Construction and Operation incl. Risk Assessment

CAS 6
MC 11: Cost Determination, Contracts and Site Management
MC 12: Maintanance and Refurbishment of Underground Infrastructures incl. M&E

Elective Modules
Exploration
Design and Construction of Underground
Numerical Methods in Geotechnics
Numerical Methods in Rock Mechanics
Advanced Rock Mechanics and Tunnelling
Sustainability in Subsurface Engineering

Master's Thesis Module
Writing a Master's thesis is mandatory in the Master's programme.

Choose from the following formats or combine them according to your needs:

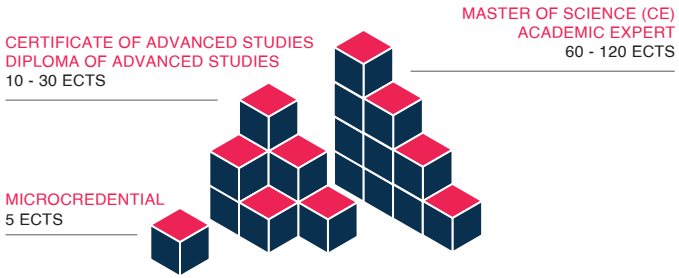
— Microcredential, MC (5 ECTS)

— Certificate of Advanced Studies, CAS (10 ECTS)

— Diploma of Advanced Studies, DAS (30 ECTS)

— Academic Expert, AE (60 ECTS)

— Master of Science (Continuing Education), MSc (CE) (120 ECTS)



Admission Requirements
There are no specific admission requirements for our Microcredentials, CAS and DAS programmes – they are open to everyone interested.

To be admitted to the Master's programme, a Bachelor's degree or completion of another study programme comprising 180 ECTS is required.