



Montanuniversität
Leoben

MASTER OF SCIENCE IN

Advanced Materials Science and Engineering

Do you want to shape the engineering of tomorrow?

The international master's programme AMASE combines excellent education in materials science and engineering with intercultural competences.

Study at six leading European universities including the Technical University of Leoben. During the Adaptation Phase (1st semester), you will acquire foundational knowledge in material structure, properties, characterisation methods and processing technologies. The Specialisation Phase (2nd and 3rd semesters) allows you to deepen your expertise in areas such as metallic materials, polymers, functional materials, or advanced manufacturing technologies.

With your intercultural skills and technical expertise, you will be highly sought after in industries such as automotive, aerospace, or electronics, driving innovations in the future of materials engineering.

Move mountains

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MASTER'S PROGRAMME

Advanced Materials Science and Engineering

PROGRAMME STRUCTURE | 120 ECTS

1st Semester (30 ECTS)

Select 3 Modules	15 ECTS
Science of Metals Ceramics Engineering Smart Materials and Semiconductors Advanced Polymer Physics Advanced Polymer Chemistry Polymer Sustainability	
Select 1 Module	5 ECTS
Mechanics of Materials Advanced Materials Testing Correlative Materials Analysis Structural Modelling and Simulation	
Select 1 Module	5 ECTS
Materials Technology I Materials Technology II Additive Manufacturing Processing of Polymers and Composites	
Soft Skills	5 ECTS

2nd Semester (specialisation on one Track, 30 ECTS)

Track 1: Advanced Metallic Materials	25 ECTS
Track 2: Polymers and Composites	25 ECTS
Track 3: Ceramics and Semiconductors	25 ECTS
Track 4: Processing Technologies	25 ECTS
Soft Skills	5 ECTS

3rd Semester (30 ECTS)

Partner university in: Spain, France or Germany	25 ECTS
Soft Skills	5 ECTS

4th Semester (30 ECTS)

Master Thesis	30 ECTS
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For programme details and
registration [follow the link.](#)

04/2025