



Montanuniversität
Leoben

MASTER OF SCIENCE IN

Polymer Science and Engineering

Do you want to create world-changing materials?

From electronics to transportation, fashion, and medicine – modern life has become unthinkable without polymers. That's why the master's programme Polymer Science and Engineering offers you the opportunity to become an expert in this innovative and future-oriented field.

After some compulsory fundamentals of polymer science and engineering in the first semester, the programme will offer you complete flexibility with a wide selection of electives allowing you to build your own curriculum. You can choose to focus on a variety of topics including exciting new areas like smart materials, biomaterials, circular engineering, or additive manufacturing.

Whether you like to work in the lab, in the office, at the machine, or with customers – after completing this program, you will be prepared to take on a job that suits your ambition – creating materials, that may change the world.

Move mountains

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MASTER'S PROGRAMME

Polymer Science and Engineering

PROGRAMME STRUCTURE | 120 ECTS

1st Semester (30 ECTS)

Advanced Polymer Chemistry	5 ECTS
Advanced Polymer Physics	5 ECTS
Structural Modeling and Simulation	5 ECTS
Lab in Processing of Polymers and Composites	5 ECTS
Polymer Sustainability	5 ECTS
Digital Skills in Polymer Science	5 ECTS

2nd & 3rd Semester (60 ECTS)

Choose 11 modules freely from a catalogue of elective topics such as:	55 ECTS
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Technical Biopolymers
Chemistry of Biobased Materials
Polymers in Medical Devices
Coatings and Adhesives
Photoreactive Polymers
Functional Integrity of Polymer Products
Polymer Recycling Technology
Industrial Polymer Chemistry
Injection Molding and Extrusion Technology
Additive Manufacturing
Processing and Circularity of Composites
Lightweight Design and Optimization
Mechanical Failure and Fracture Mechanics

Free electives	5 ECTS
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4th Semester (30 ECTS)

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

04/2025