

Move mountains

With your studies in
New Science and Technology:
Breakthrough Technologies



Technical University
of Leoben

Move mountains

FIELD OF STUDY: PROCESSES

New Science and Technology: Breakthrough Technologies

BACHELOR'S & MASTER'S PROGRAMMES

►► Progress is
only progress
if it's headed
in the right
direction.

Stella Sophie Ertl
Student
New Science and
Technology



Technical University of Leoben

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Online pre-registration
for admission:



 Technical University
of Leoben

New Science and Technology: Breakthrough Technologies



▶▶ Every breakthrough begins with someone who refuses to accept the limits of today.

Univ.-Prof. Dipl.-Ing. Dr.techn. Thomas Prohaska
 Head of the Department of General and Analytical Chemistry,
 Vice-Rector for Teaching and International Affairs

Do you want to create effective and responsible innovations?

The European University on Responsible Consumption and Production – EURECA-PRO has developed this interdisciplinary, pan-European study programme, awarding a EURECA-PRO joint or double degree. Completing your specialisation will strengthen your technical and management skills, as well as enhance your ability to work in international teams and develop sustainable solutions. Your studies combine fundamentals of engineering, including novel technologies and safety systems in the fields of Space Technology, Cyber Security and Resilience, preparing you for developing innovative products and robust production processes – from earth resources to resilient space innovations. This programme leads to careers in engineering, manufacturing, advanced materials design, and safety communication, among others.

Start your studies now at: unileoben.ac.at/en/studying/bachelors-programmes/processes/responsible-consumption-and-production-eureca-pro-en/



Semester 1 and 2 – First Joint Year of Study (60 ECTS)	
Introductory Module <ul style="list-style-type: none"> Transferable Skills Introduction to STEM (science, technology, engineering, mathematics) 	Fundamentals of Engineering <ul style="list-style-type: none"> Chemistry Mathematics Physics Engineering Mechanics
Digital Competences and Statistics Fundamentals <ul style="list-style-type: none"> Introduction to Data Modeling Algorithms and Programming Statistics 	Introduction to Study Programme <ul style="list-style-type: none"> Bacc Fundamentals Do-it Lab Circular Economy Do-it Lab Circular Engineering
Semester 3 and 4 (60 ECTS) Pick and Choose your Specialisation Semester Abroad	
Responsible Production Engineering TU Bergakademie Freiberg; Germany	Sustainable Raw Materials & Sustainable Energy Silesian University of Technology; Poland
Semester 5 and 6 (60 ECTS)	
<ul style="list-style-type: none"> Security & Resilience of Critical Systems Cyber Security & Information Literacy Defence, Strategy & Dual-Use Technologies Space Technology, Materials & Resources 	<ul style="list-style-type: none"> Management Principles Sustainable Development Process Engineering Materials Bachelor Thesis
Semester 7 (30 ECTS)	
Internship either in Austria or Abroad	

BACHELOR'S PROGRAMME

How is our consumption changing the world? And how can we achieve responsible production?

The Bachelor's programme in **New Science and Technology** combines safety systems and technology, covering the fundamentals of engineering, space, defence and resilience strategies, energy and materials science. You are able to not only participate in international summer schools, but also spend one year studying at a EURECA-PRO partner university. While there, you will develop a holistic perspective on sustainable development and gain insight into novel industries and safety systems, becoming the driving force of technological and social change. As a result, you will focus on responsible production and work towards breakthrough technological transformations.

MASTER'S PROGRAMME

Ready to deepen your knowledge?

The European University has developed a joint master programme specialising in three areas:

- Resource Supply
- Materials
- European Business Strategy & Management

These specialisations, which are part of the master curriculum New Science and Technology, provide research-focused training in collaboration with esteemed EURECA-PRO partner universities.

Detailed study plans for the degree programmes at the Technical University of Leoben can be found at: unileoben.ac.at/studium/

Misprints and typographical errors excepted. Changes to the curriculum prior to the start of the programme are expressly reserved.