Master´s study program INDUSTRIAL DATA SCIENCE
Montanuniversitaet Leoben | Technical University of Leoben
Contact person: Prof. Dr. Peter AUER
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2026 SELECTION PROCESS FOR THE MASTER'S PROGRAM "INDUSTRIAL DATA SCIENCE"

Conditions when no selection process is necessary

Applicants who have already been admitted to a regular Master's programme at the Technical University of Leoben or who have completed a regular Bachelor's or Diploma degree at a recognised post-secondary educational institution in an EU or EEA country may apply directly for admission without going through the selection process.

Admission and selection process for all other applicants

Further 30 study places will be awarded through the selection process. Basic requirements for admission to the master's programme is a suitable bachelor's degree and English language level B2.

Application window for the winter semester 2026/2027: March 9, 2026 to April 24, 2026

The application process is conducted online, starting at https://online.unileoben.ac.at/mu_online/wbselbstregperson.register.

You will need to upload several documents.

- Proof of paid processing fee

  Pay the processing fee of €70 without deduction of any bank or transfer charges to

  Montanuniversität Leoben
  IBAN AT18 2081 5000 4126 9432
  BIC STSPAT2GXXX
  Payment Reference: 600 SURNAME FIRSTNAME

- If you have already graduated:
  - Proof of completion of a relevant bachelor's degree or another relevant study course at the same level of higher education at a recognized post-secondary educational institution. (A relevant degree for comparison is the Bachelor's degree Industrial Data Science at the Technical University of Leoben.)

- If you have not yet graduated:
  - Proof that you have completed at least 150 ECTS from a relevant bachelor program or study course.
  - A confirmation from the educational institution at which this course of study is being completed, stating the expected date of graduation.
  - If the curriculum of the current bachelor's program requires the completion of professional practical training, you must also have completed your professional practical training, and proof of completion of the professional practical training must also be submitted.

- Diploma and Transcript of Records (i.e., a documentation of all the lectures and courses you completed in your bachelor's program up until now including ECTS and grades)
- A Curriculum/syllabus of your bachelor's or study program
- Matriculation certificate - matura certificate
- A legible scan or photograph of your passport or national identity document (ID card)
- A recent passport photo
- A Language Certificate to prove your English language skills: IELTS (minimum 6 points) or TOEFL ibt (minimum 80 points) or TOEFL pbt (at least 550) or TOEFL cbt (at least 213 points). You are exempt from demonstrating English language proficiency if your native language is English or you hold an academic degree with English as the predominant language of instruction. In that case, you can provide an apostilled/legalized confirmation about English being the Medium of Instruction.
- A motivation video: A video of max. 5 minutes, in English. Explain why you want to study this program and what your goals are.

Make sure to upload all the required documents fully diplomatically legalized and translated to English or German (if the originals are not yet in English or German). To legalize your documents, please contact the Austrian representative authority in your country.

Please find out in advance exactly how the documents have to be certified. It is essential to know that legalizing your documents can often take several months, so you should plan enough time for this. Please note that incorrectly legalized documents will slow down the admission process, and therefore, you may not be admitted to the desired semester.

Steps of the selection process

1. Check of the uploaded documents, files and information.
2. Evaluation of the motivation video.
3. Online test. After successful submission of your application, we will review your application. If you are eligible to be admitted to the program, you will be invited to an online test. Information about the content of the test can be found below.
4. Interview: If you pass the first three steps successfully, you will be invited for a 30-minute interview in English (online or in-person) with a commission of professors in relevant disciplines. Topics include your CV, academic background, and motivation.

Online test and interviews will be conducted in June. Final decisions about admission or rejection will be made by end of June. If you are admitted, you must accept your place in writing within 14 days, otherwise the place will be awarded to the next applicant in the ranking.

If you are not admitted, you may reapply the following year.

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Learning Content for the Online Test

Basic knowledge of mathematics, physics, computer science and statistics is required for the online test. This includes:

- Connection between various physical quantities:
  length, time, mass, weight, speed, acceleration, force, energy, power, work, pressure, temperature, electric current, electric potential, electric resistance
- Planar force systems, LC circuits
- Measurement and automation technology: fundamentals of measurement, measurement chain, measurement error and measurement uncertainty, measurement amplifiers (basic OpAmp based amplifiers), sampling and quantization, sampling theorem and aliasing, resistive sensors and resistive bridge circuits, basic capacitive and piezoelectric sensing principles and sensor types, temperature sensors, optical detectors (point, 1D and 2D)
- Programming language: Java or Python or C++
- Object oriented programming: classes, instances, instance variables, inheritance, overloading, overriding, recursion
- Data structures and algorithms: lists, balanced search trees, hashing, merge sort and quick sort, shortest path
- Concurrency: mutual exclusion, race conditions
- Data base systems: SQL, normalization
- Computer architecture and operating system: logic gates and logic circuits, finite state machines, RISC architecture, memory hierarchy, virtual memory, file systems, virtual machines
- Computer networks: MAC, TCP/IP, HTTP, SSH, NFS
- Machine Learning: supervised learning, error estimation, feed forward neural networks, backpropagation, unsupervised learning, k-means algorithm, reinforcement learning, q-learning
- Statistics: probability, random variables, expectation, variance, independence, conditional probability, parameter estimation, confidence intervals

The online test will exclusively be conducted in English.

Help required?

If you need further support to apply for the study program, please get in touch with our Study Support Center at

master.application@unileoben.ac.at

so that we can guide you through the application process as best as possible!