



Montanuniversität
Leoben

MASTER OF SCIENCE IN

Industrial Data Science

Do you want to drive digitalisation forward?

The wide availability of sensors, computing power and networks enables the integration of production and information technologies, leading to ideas, products and business models – never seen before. As digitalisation shapes everyday life and production processes alike, data experts are in high demand. That's why the master's programme in Industrial Data Science teaches you to view processes holistically in order to optimise them through data acquisition, processing and analysis.

The programme has a strong technical focus, combining expertise in IT, artificial intelligence, engineering, natural sciences, and business administration to prepare you to lead digitalisation projects.

As a data scientist, you show technical and interpersonal skills to act as a link between different areas of an organization. Where you take on a leading role to drive digitalisation forward.

Move mountains

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MASTER'S PROGRAMME

Industrial Data Science

PROGRAMME STRUCTURE | 120 ECTS

1st – 3rd Semester (38 ECTS)

Advanced Machine Learning	6 ECTS
Artificial Intelligence	2 ECTS
Operations research	6 ECTS
IoT devices	4 ECTS
Mathematical economics	4 ECTS
Advanced Mathematics	3 ECTS
Inverse Problems	6 ECTS
Master Project	7 ECTS

Elective courses (22 ECTS)

Elective courses from engineering	7 ECTS
Elective courses from economics	6 ECTS
Free electives	9 ECTS

Elective modules (2×15=30 ECTS)

Sensors and Data Acquisition	15 ECTS
Prediction and Control	15 ECTS
Data Driven Modeling and Simulation	15 ECTS
Operations and Supply Chain Management	15 ECTS
Smart Manufacturing	15 ECTS
Digitization in Tunneling	15 ECTS

4th Semester (30 ECTS)

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



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