



Montanuniversität
Leoben

MASTER OF SCIENCE IN

Digital Civil Engineering Science

TU WIEN & MONTANUNIVERSITÄT LEOBEN

Do you want to shape the future of sustainable infrastructure?

From roads, buildings, and bridges to water supply and energy grids – digital expertise is the key to minimize environmental impact while maximizing economic and societal benefits of global infrastructure. That's why the interdisciplinary master's programme Digital Civil Engineering Science provides you with skills in digital design, construction automation, simulation-based optimisation, and data-driven decision-making.

This four-semester, English-taught MSc is jointly offered by TU Wien and Technical University of Leoben and bridges civil engineering and computer science. You will study in Vienna and Leoben with a flexible blend of online and on-campus learning as a part of a dynamic and international academic community.

After graduation you will have benefited from cutting-edge research, small group teaching, and close collaboration with leading industry partners – ready to build the next generation of smart and sustainable infrastructure.

Move mountains

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MASTER'S PROGRAMME

Digital Civil Engineering Science

PROGRAMME STRUCTURE | 120 ECTS

1st Semester (30 ECTS)

Digital Civil Engineering Project	3 ECTS
Free Electives and Transferrable Skills	3 ECTS
For students with Informatics background	
Building Processes and Economics	4 ECTS
Building Technology	6 ECTS
Geotechnics	4 ECTS
Infrastructure	4 ECTS
Mechanics and Structural Analysis	6 ECTS
For students with civil engineering background	
Information Systems	6 ECTS
Programming and Algorithms	8 ECTS
Security and Privacy	5 ECTS
Visual Computing	5 ECTS

2nd Semester (30 ECTS)

Data Science	6 ECTS
Integrated Building Information Modeling	6 ECTS
Mixed Reality	6 ECTS
Monitoring and Sensors	6 ECTS
Robotics	6 ECTS

3rd Semester (30 ECTS)

Digital Engineering Electives	min 8 max 16 ECTS
IT in Engineering Electives	min 8 max 16 ECTS
Free Electives and Transferrable Skills	6 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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