



Montanuniversität
Leoben

MASTER OF SCIENCE IN

Petroleum Engineering

Do you want to shape the energy systems of tomorrow?

With the English-taught master's programme in Petroleum Engineering at

The Technical University of Leoben you will gain in-depth expertise in drilling, production, and reservoir engineering, learning to design wellbores, optimize processes, and manage complex fields.

The programme also explores sustainable solutions like geothermal energy. Field studies and industry placements provide hands-on experience.

By graduating you gain a strong academic foundation and international outlook to prepare you for leadership roles in drilling operations, production engineering, plant design and energy consulting. Making you a key player in shaping the energy systems of tomorrow.

Move mountains

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MASTER'S PROGRAMME

Petroleum Engineering

PROGRAMME STRUCTURE | 120 ECTS

1st Semester (30 ECTS)

Geoenergy Exploration & Economics	6 ECTS
Project Management	3 ECTS
Health, Safety & Environment	2 ECTS
Advanced Reservoir & Borehole Geophysics	7 ECTS
Geomodeling & Mechanics	6 ECTS
Wellbore & Reservoir Geomechanics	6 ECTS

2nd and 3rd Semester (60 ECTS)

Well Placement & Formation Evaluation	5 ECTS
Field Development	4 ECTS
Literature Review Project	3 ECTS
Reservoir Engineering Module	
Reservoir Modelling & Simulation	16 ECTS
Improved Energy Recovery and Management	16 ECTS
Carbon Storage & Energy Recovery	9 ECTS
Core Analysis & Digital Rock Physics	7 ECTS
Drilling Engineering Module	
Well Placement, Construction & Testing	15 ECTS
Well Integrity, Control & Analysis	14 ECTS
Drilling Process Planning & Evaluation	10 ECTS
Well Construction & Materials	9 ECTS
Production Engineering Module	
Artificial Lift, Materials & EOR Technology	16 ECTS
Mechanical Earth Modeling & Characterization	12 ECTS
Energy Storage, Networks & Transport	12 ECTS
Data Acquisition, Monitoring & Analysis	8 ECTS

4th Semester (30 ECTS)

Master Thesis	30 ECTS
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For programme details and
registration follow the link.



04/2025