Study Environment

The Technical University of Denmark (DTU) is the leading technical university in Scandinavia and one of the top technical universities in Europe. It has outstanding facilities for education and research in a large, open campus just north of Copenhagen. All master's courses are taught in English.

Study Abroad

Students at the Petroleum Engineering MSc programme are encouraged to spend one semester abroad, in order to meet additional subjects and experience a different study environment. The most active student exchange is with Norwegian and Dutch universities.

Student Life and Networking

The students are involved in activities leading to regular contacts to petroleum companies and, eventually, future employment. The Programme is connected with the Student Chapter of the Society of Petroleum Engineers (SPE), which makes it possible for students to participate in monthly SPE meetings, meet invited engineers and HR in industrial facilities, build promising contacts between students and their future possible employers.

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DTU Civil Engineering
Department of Civil Engineering

DTU Chemistry
Department of Chemistry

DTU Compute
Department of Applied Mathematics and Computer Science

DTU Chemical Engineering
Department of Chemical and Biochemical Engineering

International Applicants:

Application Procedure Info

International Affairs
Phone: +45 4525 1023
Email: international@adm.dtu.dk
Office Hours: Monday - Friday, 11 am - 2 pm

Danish Applicants:

Application Procedure Info

Studievejledningen
Phone: 4525 1199
Email: studvejl@adm.dtu.dk

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Programme Structure
The programme follows two overall directions:
1. Geology, Geophysics and Rock mechanics
2. Reservoir Engineering and Process Technology

All students pass a number of mandatory courses. These following courses will provide the basic knowledge that is essential for any petroleum engineer:
• Rock physics and rock mechanics
• Petroleum engineering
• Petrophysics and borehole logging
• Oil and gas production
• Enhanced oil recovery
• Technology and economy of oil and gas production

The mandatory courses comprise 30 ECTS points, one quarter of the programme. The following two quarters are technological specialization and elective courses. A wide range of technological specialization and the elective courses makes it possible for you to form your own petroleum engineering related portfolio of skills and knowledge. The last quarter consists of the master thesis, which is usually written in connection to a large research project at DTU, and/or in collaboration with a petroleum company.

Prerequisites
Who can apply?
The two-year master programme in petroleum engineering may accept students from Bachelor programmes within the areas of physical, chemical, civil, environmental, and applied mathematics.

Academic requirements
• Minimum 20 ECTS points in mathematics, including differential equations.
• Minimum 20 ECTS points in physics and chemistry.
A candidate should have solid skills in several subjects like: Mechanics of liquids and solids, flows, thermodynamics, physical chemistry, mixtures, surface chemistry.

Merits and qualifications of other applicants will be considered individually based on the material submitted. Applicants must have solid skills in mathematics, physics, analytical and applied mathematics.