

Information Sheet

Course of Study

Environmental Technology (Master)

General Information

This consecutive master programme provides students with different options to build on their Bachelor's degree in science or engineering by allowing them to specialise in an area of particular interest and acquire in-depth knowledge in research and development of environmentally friendly technologies. Engineering and scientific coursework is complemented by further subjects, such as languages, management and law.

Successful completion of this programme opens up a variety of opportunities in the environmental industry - one of the most important and most promising industries in Germany: Environmental engineers may work as project engineers in the development and design of technical plants and equipment or in areas concerned with resource efficiency and environmental protection. They may also hold a responsible position in environmental management or work in research and development of environmental technologies.

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The programme takes three semesters to complete. It is divided into two semesters of equal weight (summer semester and winter semester, respectively) plus a third semester for completing the final research paper (Master's Thesis).

Relevant course work during the **summer semester** includes the following **compulsory modules**:

- Management
- European Environmental Law
- Plant Design and Plant Automation Engineering
- Process Engineering
- Mathematical and Numerical Methods
- Process Simulation
- Dynamics of Anthropogenic Systems
- Process Engineering and Plant Layout
- Plant and Equipment Design
- Plant Automation Engineering
- Materials and Corrosion in Environmental Plants
- Sustainable Chemistry
- Methods of Science and Leadership Competence
- Management Concepts and Methods
- Master Seminar Environmental Engineering (Lecture Series)

The **winter semester** allows for **further specialisation** in areas of individual interests. Students can choose from a wide range of **elective modules**, such as

- Languages (to be chosen from OTH language courses)
- Thermal Machines and Plants
- Solar Energy Systems
- Intensification: Biological Recycling Processes
- Biotechnical Processes
- Power Generation from Biomass
- Energy Conversion Systems
- Clean Production Technology and Eco-Design
- Design and Planning of Water Treatment Plants
- Air Pollution Control
- Waste Treatment Technologies
- Design and Planning of Recycling Plants
- Thermal Waste Treatment
- Environmental Engineering for Building Construction
- Design of Wastewater Discharge and Floodwater Constructions (in cooperation with TH Deggendorf)
- Building Climatology and Summer Thermal Protection (in cooperation with TH Deggendorf)

The **third semester** is intended for writing the final research paper (Master's Thesis) which may also cover research carried out in connection with a practical placement at a company in the field of environmental technology.

The programme leads to a **Master of Engineering degree (M. Eng.)**.

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