

information sheet

course of study

Environmental Engineering (Master)

General Information

The application and observance of environmental standards gain more and more importance. Solutions for existing environmental problems as well as matters of environmental precaution, especially regarding production methods in the industry, will be crucial. At the moment, environmental engineering has excellent prospects as one of the mid-term biggest export branches of Germany. The content-related focus of this master programme is on the demanding engineering subjects which are supplemented by language and law-related lectures that are necessary for an international orientation. The graduates will be able to take over leading positions during environmental project development, planning and application in engineering offices and industry as well as planning and operation of environmental engineering plants.

The consecutive master programme „environmental engineering“ offers a deepened qualification in environmental engineering, especially for above-average graduates of bachelor and diploma programmes in engineering and scientific courses of study. Partners for this programme are the Technical University Munich/ Science Center Straubing, the University of Applied Sciences Deggendorf and the Westbohemian University Pilsen /Czech Republic.

Course of Study

The programme is three semesters in duration. It offers a consecutive qualification for graduates of the following courses of study:

- Process Engineering
- Mechanical Engineering
- Supply Engineering
- Constructional Engineering
- Production Engineering
- Technical Physics
- Industrial Engineering
- Patent Engineering
- Environmental Engineering
- Chemical Engineering

During the **first semester** the necessary engineering and scientific knowledge is conveyed as well as the essential know-how of European environmental law.

Obligatory Subjects:

- European Law / European Environmental Law
- Process Simulation
- General Plant Construction and Apparatus Engineering
- Management Concepts and Methods
- Corrosion in Eco-friendly Plants
- Sustainable Chemistry
- Human Ecology
- Plant Automation
- Master Course Environmental Engineering

Elective Subjects:

- Language of Central Eastern Europe
- Thermodynamics / Balancing / Engineering Results Assessment
- International Project Management
- Biochemical Methods
- Electrical Engineering
- Ecology in Power Engineering
- Sewage Utilisation
- Electrical Measurement

In the **second semester** an individual specialisation has to be made. At choice are:

- Power Engineering
- Production-integrated Environmental Protection
- Environmental Process Engineering
- Environmental Engineering in Architecture

The **third semester** is for writing the master thesis.

The programme ends with the awarding of **Master of Engineering (M. Eng.)**.

Student Advisory Service in Amberg

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