

information sheet course of study

Environmental Engineering

General Information

Environmental Engineers deal with development and application of technical devices in order to prevent or take care of environmental protection. They develop technical methods and processes to avoid future ecological damages from the beginning with the help of integrated technologies and reduce existing damages by implementing corrective measures. Environmental Engineering is a noted growth market – such as renewable energies, procedures of water, soil and air conservation and waste treatment as well as techniques to product integrated environmental protection – and therefore has many very good professional prospects. Environmental Engineering is seven semesters in duration (including a practical semester) and ends with the awarding of Bachelor of Engineering (B. Eng.). Afterwards the University Amberg-Weiden offers the possibility to do the master programme “Environmental Engineering” (3 semesters).

Course of Study

The bachelor programme subdivides into three study phases (phase 1: semester 1 and 2; phase 2: semester 3 and 4; phase 3: semester 5 to 7, with a practical semester of 22 weeks during semester 5). The single modules are summarised into groups of: “Scientific and Engineering Basics”, “Application-oriented Modules”, “Environmental Engineering”, “Specialisation Modules”, “Interdisciplinary Subjects” and “Practical Experience”.

Scientific and Engineering Basics in Environmental Engineering are:

- Mathematics
- Physics
- Basics in Chemistry and Biology
- Materials
- Technical Mechanics and Construction (CAD included)
- Electrical Engineering and Information Technology

Following lectures are part of the module „Application-oriented Subjects“:

- Thermodynamics and Flow Mechanics
- Process Engineering
- Heat Transmission and Reaction Technology
- Biotechnology
- Physical Chemistry
- Control and Feedback Control Systems
- Measuring and Sensors
- Basics of Energy Management

The module „Environmental Engineering “ contains the following:

- Environmental Chemistry I (Inorganic) and II (organic)
- Environmental Analysis
- Water and Wastewater treatment
- Air Pollution Control
- Waste Management
- Eco-friendly Energy Management
- Production-integrated Environmental Protection

„Interdisciplinary Subjects“ are:

- Business Management
- Environmental Management
- Environmental Law

There is the possibility to specialise with the help of elective subjects according to the personal fields of interest. The student can chose modules out of a fixed list. Further subject-related elective courses with a changing offer complete the specialisation.

After successful ending of the study, the student will be awarded with the Bachelor of Engineering (B.Eng.).

Afterwards, the University of Amberg-Weiden offers the possibility to study the three-semester master programme „Environmental Engineering“. This will end with the awarding of Master of Engineering (M. Eng.).

Student Advisory Service in Amberg

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