

3. LEVEL OF THE QUALIFICATION

3.1. Level

Undergraduate / first degree, with thesis

3.2. Official Length of Programme

4.5 years

3.3. Access Requirements

Entrance qualification for degree courses at Fachhochschulen

4. CONTENTS AND RESULTS GAINED

4.1. Mode of Study

part-time attendance combined with self-study

4.2. Programme Requirements

The course of study is intended to provide the student with the basic and specialist knowledge required to work in the occupation in a self-employed status; it also teaches the methods and theories as well as the qualification and competency necessary for implementing the same, and serves as a comprehensive vocational preparation.

During their university studies, the following structural competencies are to be imparted to the prospective engineers:

- Principles of mathematical/natural sciences (mathematics, information technology, physics, etc.),
- Technical principles (mechanics, thermodynamics, control engineering, electrical engineering, etc.),
- Application-orientated basic skills.

The mathematical/natural sciences and the technical principles serve the student as a permanent basis for the rapid development of new special knowledge. The application-orientated basic knowledge ensures that the student has the requisite occupational skills expected on the employment market.

The university courses leading up to the undergraduate examination shall observe the general aims of the course of study (§ 58 HG) and impart to the students in particular the application-related contents of their field of study on the basis of scientific perceptions and enable them to apply engineering techniques for the analysis of technical processes, to elaborate practice-orientated solutions and, while doing so, to also take into consideration external concerns such as e.g. the optimum selection and the technical-economical utilization of their knowledge and experience.

4.3. Programme Details (in original language)

See transcript for list of courses and grades; and Bachelor Exam Certificate for subjects offered in final examinations (written and oral), and topic of thesis.