

information sheet course of study

Patent Engineering

General Information

This course of study conveys a technical core accompanied with profound knowledge of the complex work field of patents. Examples are Patent Research, Patent Evaluation, Patent Management, Patent Preparation and Patent Implementation. Patent Engineering at the University of Applied Sciences in Amberg is a unique course of study and therefore a nationwide unique selling point. Graduates have excellent professional prospects in a highly interesting interface of patent management, engineering and economy.

Course of Study

The programme is eight semesters in duration including a basic internships (during lecture-free time in the basic studies) and a practical semester (in semester 6). The **basic studies** (semester 1 to 3) the scientific and engineering bases are set, already linked to contents of teaching of judicial and business aspects of patent science. Following lectures are part of the schedule:

- Electrical Engineering and Electronics
- Mathematics
- Computer Sciences and Data Bases
- Physics
- Technical Mechanics
- Construction / CAD
- Materials and Chemistry
- International Patent Law
- German Patent Law
- Private and Public Law
- Management Techniques
- Practice-oriented Methods of Business Sciences
- Communicative Competence / Moderation Techniques
- English 1
- Elective Subject
- Practical Seminar.

The **main study** (semester 4 to 8) conveys practice-oriented knowledge in engineering spheres of knowledge combined with an intense deepening of juridical and business aspects of patent science and processes of granting patents. Semester 6 is a practical one, which has to be absolved in the industry.

Lectures during the main studies are for example:

- Technical Product Development / Process Engineering
- Power Engineering
- Technical Thermodynamics
- Electrical Components / Micro System Technology
- Microcomputer and Digital Technology
- Control and Feedback Control System
- Automation and System Technology
- Applied Industrial Property Protection
- Legal Protection for Non-technical Services
- Patent Management
- Research Techniques
- Marketing
- R&D– Controlling
- Chemical and Biotechnological Methods
- Technical Thermodynamics
- Technical Product Development
- New Materials
- Process Engineering
- Project
- English 2
- Elective Subjects
- Practical semester.

Many lectures are intensified and deepened with internships. Therefore the University in Amberg has installed altogether 25 state-of-the-art laboratories. In addition the student can choose a certain specialisation with absolving certain elective subjects.

The course of study ends with the awarding of **Diplom-Ingenieur/in (FH) für Patentwesen.**

Student Advisory Service in Amberg

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