

information sheet course of study

Innovation Focused Engineering and Management (Master)

General Information

The master programme “Innovation Focused Engineering and Management” (IFEM) is created as an interdisciplinary one and should therefore fulfil the more demanding and complex interdisciplinary problems of entrepreneurial experience. Different to other programmes like technology and innovation management which are offered almost only by universities, this master sets one focus in engineering. Plus, there are juristic and business aspects which are conveyed in modern forms of teaching such as project works in order to advance cross-section thinking and interface competences of the students. This effect is supported by special lectures of the sector “social skills” and the traditional close cooperation with the industry. The master programme IFEM will offer a possibility to qualify as junior manager in product development, technical distribution or even as product manager to graduates of engineering bachelor or diploma programmes.

This education aims to create a autonomously acting person who can think in cross-sections and who, based on a solid scientific and engineering education, contrasts with other competitors. The graduate will be able to organise and lead workgroups and technical project in a innovation-advancing mode. Preferred fields of application are in the areas R&D project execution, product development and technical distribution.

Course of study

The consecutive programme is three semesters in duration. It offers a further qualification for graduates of engineering and scientific programmes such as:

- Mechanical Engineering, Vehicle Construction
- Production Engineering, Production Technology
- Electrical Engineering
- Industrial Engineering, Patent Engineering
- Technical Physics.

During the **first semester** a together basis for all students is set concerning engineering know-how. Plus, there is a test in interdisciplinary team play in the context of a project work.

Obligatory subjects:

- Scientific Basics to topical Fields of Innovation
- Methods of Integrated Product Development
- Basics of Industrial Property Protection
- Business Private Law
- Technology and Innovation Management
- Marketing of New Products
- Strategic Management Concepts
- Research Techniques
- Communicative Competences and Moderation Techniques

The **second semester** contains specialisation modules to topical fields of innovation. There are three different groups of elective subjects:

- Field of Innovation “Laser“ (Amberg)
- Field of Innovation “Simulation“ (Amberg)
- Field of Innovation “Technical Development“ (Ingolstadt)

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

Phone: ++49 +9621/482-215 / -236 or -197

u.stiegler@haw-aw.de
c.birner@haw-aw.de
w.weber@haw-aw.de

www.haw-aw.de