

information sheet

course of study

Industrial Information Technology (Master)

General Information

The Universities of Applied Sciences Amberg-Weiden and Hof offer a common course of study called „Industrial Information Technology“ since summer semester 2006. This education aims to get IT experts for technical and industrial operation ranges like software development and IT application in automation, automotive, development and production processes, factory planning and logistic processes. Further key qualifications in marketing, business studies and management ease the employment in every department of the supply chain.

The consecutive Master programme is addressed to graduates with a first degree in Engineering or Science. It conveys the skill to apply autonomously and independently scientific knowledge and methods in the field of information, control and automation systems for industrial application. There are two specialisations possible – one has to be chosen: Automation of Machines, Devices and Components (IT for Automation, University in Amberg) or Planning, Control and Optimisation of industrial Processes (IT for Production Processes, University in Hof).

Course of Study

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

- Electrical Engineering and Information Technology, Technical Computer Sciences, Computer Sciences
- Commercial Computer Sciences, Industrial Engineering
- other Engineering Programmes with regards to IT or Automation.

The **first semester** conveys basics for both specialisations. It is offered partly as video lectures and/or virtual workshops and lectures, so that the students do not have to come either to Amberg or Hof.

Obligatory Subjects (video lectures a/o virtual workshops)

- Stochastic Theory and Optimisation
- Information Theory and Coding
- Technology of Distributed Systems
- SW Modelling and Samples
- SW Project Management
- Management Methods and Tools

Elective Subjects (lecture at the particular location)

- Portable Systems
- Mathematical Basics of System Technology
- Service-oriented IT Architectures
- Agent Theory
- Autonomous Mobile Systems
- Recent Trends in Logistic Systems

The **second semester** is for implementing the chosen specialisation. Each partner offers one. The lectures of the specialisation are obligatory at the particular location.

Alternatives:

- **IT for Automation** (Amberg)
 - Subject Group System Technology
 - Subject Group Communication Technology
 - Subject Group Product Automation
- **IT for Production processes** (Hof)
 - Subject Group Supply Chain Management
 - Subject Group Information Systems
 - Subject Group Plant and Equipment Automation.

The **third semester** is for writing of the final paper (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