

Information Sheet

Course of Study

Information Technology and Automation (Master)

General Information

„Industrial Information Technology“ was introduced in the summer semester 2006. The aim of this consecutive Master programme is to prepare future IT experts for a variety of technical and industrial areas, such as software development, automation, automotive engineering as well as development and production processes. Additional key qualifications in management techniques facilitate the graduates' employability at each stage of the value chain.

The programme addresses students with an undergraduate degree in Engineering or Sciences and places great emphasis on the students' ability to undertake independent self-directed study in the fields of information, control and automation systems for industrial application.

Course of Study

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

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

The **first semester** provides the basics for the further course of study and comprises the following modules:

- Stochastics and Optimisation
- Information Theory and Coding
- Technology of Distributed Systems
- SW Modelling and Patterns
- Management Techniques and Tools
- Mathematical Basics of Systems Engineering

The **second semester** allows sufficient flexibility for further specialisation in **areas of individual interest**. Students can choose from the following subject groups:

- Systems Engineering
- Communication Technology
- Product Automation

From each of the above subject groups, at least 5 ECTS have to be chosen. Individual subjects under the subject groups may change and are listed in the course schedule every semester.

The programme concludes with a dissertation project (Master's Thesis) in the **third semester**.

The programme leads to the degree „**Master of Engineering**“ (M.Eng.) .

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