



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Mechatronics and Robotics (MEng)

Schmalkalden University of Applied Sciences • Schmalkalden

Overview

Degree	Master of Engineering in Mechatronics and Robotics
Teaching language	<ul style="list-style-type: none">English
Languages	All courses are held in English. Students write their Master's theses in English as well.
Programme duration	3 semesters
Beginning	Winter semester
Additional information on beginning, duration and mode of study	The winter semester starts on 1 October. The lecture period usually starts in the second week of October.
Application deadline	15 May for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

Description/content

The Mechatronics and Robotics Master's programme is a modern, modularised, English-taught, full-time programme with a high proportion of practical engineering training. The courses are offered jointly by the Faculty of Electrical Engineering and the Faculty of Mechanical Engineering at Schmalkalden University of Applied Sciences. This cooperation makes it possible to offer students outstanding interdisciplinary learning and study conditions in excellently and modernly equipped laboratories with the latest technologies. Furthermore, we maintain a close network with the local industry. There are various options for internships and writing your Master's thesis with a small or medium-sized enterprise in our region. Therefore, the degree is of high practical relevance. It grants excellent prospects on both the German and the international labour market.

Compulsory and elective modules of the programme include:

- Automation Control
- Digital Signal Processing for Engineering Applications
- Systems Theory
- Design of Robot Workplaces
- Communication Systems
- Applied Physics
- Production Planning and Work Design

- Vibration Engineering
- Rapid Control Prototyping
- Development of Mechatronic Systems
- Workshops in Mechatronics
- German Language

Course Details

Course organisation The Master's programme in Mechatronics and Robotics lasts three semesters of full-time studies on site. In the first two semesters, students must attend six classroom courses with a workload of 5 ECTS credits each (a total of 30 ECTS credits per semester). All modules are concluded with an examination at the end of the semester. The modules are assigned to three thematic groups: electrical engineering, mechanical engineering and practical engineering work. Particularly noteworthy are the two practical workshops in both semesters. The third semester is reserved for writing and defending the Master's thesis. The Master's thesis can be undertaken in a free enterprise with a practical task. In that case, each student is responsible for the topic and the contact to the company. A second possibility is to get a thesis topic from the faculty.

A Diploma supplement will be issued Yes

Course-specific, integrated German language courses Yes

Course-specific, integrated English language courses No

Costs / Funding

Tuition fees per semester in EUR None

Semester contribution Approx. 130 EUR per semester (granting free public transport within the State of Thuringia as well as a student discount at the canteen and other venues)

Costs of living Schmalkalden is a very affordable study location. The cost of living is approx. 755 EUR per month:

- 200 EUR for accommodation in the student dormitory or near campus
- 110 EUR for health insurance
- 45 EUR for Internet connection, mobile phone connection, radio and television license fee
- 370 EUR for daily expenses (e.g. food, drinks, clothes, etc.)
- 30 EUR for study materials

Funding opportunities within the university No

Requirements / Registration

Academic admission requirements

- Applicants need to have a university degree in mechanical engineering, mechatronics, electrical engineering, or a similar subject from a full-time, seven-semester (Bachelor's) programme at a recognised university (with an overall workload equivalent to at least 210 ECTS). Your (Bachelor's) degree needs to be granted with a final grade equal to or better than 2.0 on the German grading scale (grade will be converted by SUAS), and it needs to contain a certain minimum workload in the following selected fields, depending on the specialisation to be selected by the applicant:
- All applicants: higher mathematics (at least two modules)
- Applicants seeking to specialise in mechanical engineering: machine construction and CAD (at least three modules)
- Applicants seeking to specialise in electrical engineering: circuit design and programming (at least three modules)
- Please note that applicants with degrees from India, Vietnam and China must also enclose a valid APS certificate with their application. Be sure to apply for your APS certificate in your home country in good time.

Language requirements

Proof of English language ability for non-native speakers: CEFR level B2.2 or higher; TOEFL IBT score equal to or better than 80, IELTS score of 6.5 or better, or similar recognised language proof

Proof of English as the medium of instruction in the Bachelor's programme will not be accepted for admission.

Application deadline

15 May for the following winter semester

Submit application to

Hochschule Schmalkalden
Dezernat 1 - Studium und Internationales
Blechhammer 4-9
98574 Schmalkalden
Germany

Services

Possibility of finding part-time employment

There are various medium-sized companies in Schmalkalden regularly looking for part-time employees. Schmalkalden University of Applied Sciences offers a dedicated Career Service that assists in such matters.

Accommodation

Dormitories

The "Studierendenwerk Thüringen" (Students' Union) runs all dormitories in Schmalkalden. There are two dormitory buildings on campus – House I and House II at Blechhammer 9 – that can be reached in less than a minute on foot from the Schmalkalden-Fachhochschule train station. The third dormitory is on Martin-Luther-Ring, which is an eight-minute walk from campus. While the dormitories offer single room flats, the majority is constituted of single rooms in two- to four-room flats. The flats are equipped with a fitted kitchen and shower/toilet. The monthly rent (including utilities) ranges from 167 to 228 EUR. Prospective students can apply online via the website of the Studierendenwerk: <https://www.stw-thueringen.de/en/housing/application/>.

Private housing

Nevertheless, we encourage degree seeking students to consider private accommodation as the demand for housing in dormitories is very high and we cannot guarantee a spot for you. Students who seek places of their own can live alone or with other students in a private flat-sharing community (WG).

The "Wohnungsgenossenschaft Schmalkalden" and the "Wohnungsbau Schmalkalden" offer flats

ranging in size and rent in different residential areas in Schmalkalden and the surrounding area. You can choose between furnished and non-furnished flats. Furthermore, if you prefer to live in a shared flat but do not know somebody to room with, our housing team can assign you a shared flat.

Moreover, there are websites where landlords, tenants and also students offer rooms, many of which are furnished. The most popular page is <https://www.wg-gesucht.de/> or the Facebook group <https://www.facebook.com/groups/473221526028262>.

In any case, your chances of stress-free living in Schmalkalden are best if you inform yourself well ahead. For more information, please check out our housing info sheet (https://www.hs-schmalkalden.de/fileadmin/portal/Dokumente/IO/Infosheet_Housing.pdf).

Career advisory service

Schmalkalden University of Applied Sciences has its own International Career Service for students, graduates, and local companies. The International Career Service is the central interface between studies and career. It serves as the first point of contact for companies looking for interns or cooperation opportunities, among other things.

In order to fulfil our tasks, the International Career Service regularly organises events around these topics:

- Career
- Application
- Key skills
- Networking and making contacts

The portfolio also includes workshops for students, excursions, fireside chats and “Career Days”.

Additionally, Schmalkalden University of Applied Sciences organises a career fair.

Support for international students and doctoral candidates

- Welcome event
- Tutors
- Specialist counselling
- Cultural and linguistic preparation

General services and support for international students and doctoral candidates

Schmalkalden University of Applied Sciences provides an "Incoming App" for international students in which students can seek information on university-related matters as well as on moving to and living in Germany, particularly in Schmalkalden. Furthermore, the Department for Studies and International Relations operates a Student Service Zone and offers a comprehensive, extracurricular event programme for international students with events such as career workshops, field trips to major German cities, cultural events, etc.

Additionally, the university offers:

- Free German language classes for international students
- Field trips to Berlin, Leipzig/Dresden, etc.
- Peer-to-peer language learning
- Workshops on business, culture, etc.
- Social events
- Comprehensive campus sports programme

Contact

Schmalkalden University of Applied Sciences
Team MERO

Blechhammer 4-9
98574 Schmalkalden

✉ mero@hs-schmalkalden.de

🌐 Course website: <https://www.hs-schmalkalden.de/en/studying/programmes/master-degree-courses/mechatronics-and-robotics.html>

📘 <https://www.facebook.com/International-Office-Hochschule-Schmalkalden-171899453204008/>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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Disclaimer

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