DAAD

Deutscher Akademischer Austauschdienst
German Academic Exchange Service

INTERNATIONAL PROGRAMMES

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Master's degree

Applied Computer Science (MSc)

Schmalkalden University of Applied Sciences • Schmalkalden

Overview

Degree	Master of Science in Applied Computer Science
Teaching language	• English
Languages	All courses are held in English. Students write their Master's theses in English as well.
Programme duration	4 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	Computers and media are ubiquitous, and computer scientists are at the forefront of transforming the way of writing, reading, seeing and generally communicating with each other. Computer science entails analysing, implementing and evaluating technical solutions to improve everyday digital life.

The new challenges are deeply anchored with the main characteristics of these systems and applications:

- Ubiquity: Mobile devices interchangeably produce and consume massive amounts of services. They exhibit specific behaviours and are fundamentally different from traditional IT systems.
- Distribution: Modern IT systems are highly distributed, driving the implementation of mobile devices, interactive media and wireless communication. The resulting complexity needs to be met with adequate concepts, methods and technologies.
- Visuality: To allow us to communicate, these systems need high performance visual input and output. Interactive interfaces need to be evaluated with scientific rigour to meet usability needs.

Central topics of the Applied Computer Science:

- Distributed and Mobile Systems: Central topics include concepts and methods for the development of distributed and mobile systems, software engineering, programming of mobile applications and communication technologies, advanced concepts for the engineering of distributed systems as well as modern integration technologies and middleware platforms.
- Knowledge Engineering and Data Science: For knowledge engineering and data science, the autonomous interactions in several kinds of environments that provide data is of basic importance. The courses provide a deep knowledge, from basic to advanced topics along with practical abilities in data acquisition, digital signal processing with emphasis on time series processing and prediction as well as feature extraction methodologies and machine learning technologies.
- Software Engineering: Central topics include interdisciplinary and holistic techniques for the development of smart systems. This affects design, development, testing and operation of these applications.
- Communication Technologies and Security: Distributed and mobile systems are highly communication intensive. A solid knowledge of underlying communication technologies is a prerequisite for the development of these systems and their security.

Course Details

Course organisation	The curriculum of the Master's degree programme, which lasts four semesters, is divided into two parts: mandatory modules and elective modules tailored to the student's specific interests. Elective modules can be chosen from two areas: • Elective Area I: Programming and Advanced Software Engineering • Elective Area II: Media Technologies and HCI
A Diploma supplement will be issued	Yes
Integrated internships	None
Course-specific, integrated German language courses	No
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	- Academic admission requirements include an outstanding academic degree in the fields of informatics or a related area (Bachelor's degree, German "Diplom"), or the equivalent. In general, applicants should have a grade better than 2.5. - Letter of motivation - Practical experience is appreciated but not obligatory. - 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: TOEFL iBT 80 or better, or IELTS 6.5 or better English as the medium of instruction during undergraduate studies is not sufficient for admission. Native English speakers are exempt from this.
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 MACS

Blechhammer 4–9
98574 Schmalkalden

✉ macs@hs-schmalkalden.de
🌐 Course website: https://www.hs-schmalkalden.de/studium/studienangebot-hs-schmalkalden/master-studiengaenge/applied-computer-science-msc.html

f https://www.facebook.com/International-Office-Hochschule-Schmalkalden-171899453204008/

⊙ https://www.instagram.com/hs_schmalkalden/

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Federal Ministry of Education and Research