

Software Engineering for Industrial Applications (M.Eng.) - Hof University — Hof University

Source: <https://www.hof-university.com/studying-at-hof-university/software-engineering-for-industrial-applications-meng.html>

Our web technology-, development- and software management oriented modules enable you to develop industrial applications for companies all over the world.

We also focus on strategic knowledge in software and project management. Our teaching methods include various modern methods such as cloud-computing and international projects with our partner universities.

With this Master's program, you gain

a unique Master's degree at the interface of management and technology with the degree M.Eng.

a perfect interdisciplinary toolbox of knowledge and skills for complex management and engineering tasks in the field of software development

German language skills of at least level A2 at graduation.

In addition, you benefit from

an innovative mix of teaching methods - virtual learning, blended learning, simulations and case studies

development of your intercultural competence,

valuable work experience gained during the internship semesters.

As a graduate, you...

have excellent career perspectives in various fields, e.g. web technology projects, component-oriented software development or software design

most likely find an interesting and well-paid position immediately after graduation due to a high demand for skilled software engineers in Germany

are predestined to work in international software project teams

You are ready to work as

Software Developer

Software Engineer

Software Quality Manager

Software Change Manager

Industrial IoT Systems Developer

All our programs are practice-oriented, interactive and multimedia-based. Teaching is based on application-oriented knowledge and is supported by projects with industry, site visits and interaction with experts. Case studies as well as real-life business examples contribute to profound insights into the theoretical knowledge.

Our professors (all with PhD) and lecturers are experts in their respective fields bringing together solid scientific understanding with valuable professional experience. Thus, the knowledge transfer from business life to the classroom is ensured.

In addition, we have a strong focus on career promoting activities for students (e.g. career talks, job fairs, seminars and trainings). A three-day team-building event is a highlight for our third and fourth semester students. It includes an industrial visit and is a great opportunity for students and professors to meet outside the campus. Through an intensive exchange of ideas and networking, a connection is established beyond the point of graduation.

The standard period of study is 4 semesters.

The first two semesters provide practice oriented theory (case studies, excursions, expert meetings...).

The third and fourth semester is spent working as an intern in the industry to gain more practical experience. The Master's thesis has to be written during this time as well.

After successful completion of the program, Hof University awards the academic degree Master of Engineering (Eng.).

Semester 1 and 2: praxis-oriented theory

Basic modules (all mandatory)

Project management

Software engineering

Communication and negotiation skills

Internet of things

Core modules (all mandatory)

Component oriented software engineering

Advanced programming

Concept and tools for application development

Practical studies - Industry 4.0

Non-relational data bases

Applied cloud computing

Electives (select two)

German language A1 *

German language A2 *

Analytical information systems

Mobile computing

Recent trends in software engineering

* If you do not have any German language skills at the beginning of the studies, the modules German A1 and A2 are mandatory (higher levels available).

Semester 3 and 4: Internship and Master's thesis

practical work-experience

Master's thesis with a company

For an admission in this Master program, you need to fulfill the following admission criteria:

Academic requirements

A Bachelor's degree in software engineering or similar from an accredited university, at least 180 ECTS or equivalent (depending on home country)

One year of work experience

Language requirements

You need to prove your proficiency in English. This can be done with either of the following:

TOEFL minimum 90

IELTS 6.5 or above

PTE Academic (Pearson) 60 or above

By the beginning of the internship, all students have to prove that they are at a A2 German language level. The German language level A2 can be reached during the studies in Hof.

For further information please check our application guide.

All applications must be done via our online application portal Primuss.

The application period for winter intake is between April 15 and May 31.

The application period for summer intake is between November 05 and November 30.

An admission committee intensively scrutinizes all applications and decides about final admission.

Admission letters will be issued in June for winter intake and December for summer semester intake.

If you have any questions concerning the application process, please contact [admission\(at\)hof-university.de](mailto:admission(at)hof-university.de).

Internship

A unique feature of our M.Eng. is that students spend the second year doing a paid practical internship in industry (e.g. in an IoT- or web technology or software development project).

The Master thesis is also project-based and done in cooperation with a company. Thus, you can immediately apply your knowledge, gain profound professional experience and earn money at the same time.

Software Engineering for Industrial Applications

Winter semester: April 15 - May 31

Summer semester: November 5 - November 30

Info and services

Timetable

Here you find your timetable.

The campus is the management and administrative center of the university. Here you will find the university library, high-tech laboratories and university sports facilities.

More about Campus Hof

Emil from Albania

Kavya from India

Khen Brian from Ghana

Yash from India

Francis from Ghana

Ivan from U.S.A.

Please contact our Graduate School team.

Opening hours Graduate School on campus (room A016):

Please contact our Welcome Center.

Head of Program

Program Management Graduate School

Student Affairs - Program Manager

Prof. Dr. Jürgen Heym

Wednesday: 09:30 - 10:30

Maximilian Burger

Monday: 13:00 - 14:00 Thursday: 13:00 - 14:00 Friday: 09:00 - 10:00 Room A016

Sonja Andörfer