



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

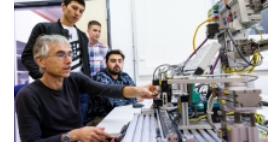
Bachelor's degree	2
BEng in Mechatronics • Technical University of Applied Sciences Würzburg-Schweinfurt (THWS) • Schweinfurt	2

Bachelor's degree



BEng in Mechatronics

Technical University of Applied Sciences Würzburg-Schweinfurt (THWS) • Schweinfurt



Overview

Degree	Bachelor of Engineering in Mechatronics
Course location	Schweinfurt
Teaching language	<ul style="list-style-type: none">English
Languages	All courses are held in English.
Programme duration	7 semesters
Beginning	Winter semester
Application deadline	1 April to 15 June for the following winter semester
Tuition fees per semester in EUR	None
Joint degree / double degree programme	No
Description/content	The Mechatronics degree programme is devised to meet the multidisciplinary requirements of today's industry. This engineering discipline combines the competences from areas of electrical and mechanical engineering with information processing. The teaching staff has vast industrial experience and is actively involved in research and development in cooperation with national and multinational enterprises. A graduation in the field of Mechatronics at THWS opens many doors to a fascinating career as an engineer.

Course Details

Course organisation	<p>Semester 1-3: Basic and foundation modules (Mathematics, Physics, Programming, Computing, Electrical Engineering, Mechanical Design, Mechanics, Microcomputer Systems, System Theory, System Modelling, General Electives, Labs etc.)</p> <p>Semester 4-5: Core modules (Measuring Techniques, Actuators, Control Systems, Logical Control, Software Engineering, Embedded Systems, Modelling and Simulation of Mechatronic Systems,</p>
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Labs, etc.)

Specialisation modules (a wide range of specialisation modules with direct industrial relevance to automation, robotics, artificial intelligence, machine learning, digital hardware design, cryptography, power engineering, manufacturing, biomedical engineering and automotive sector)

Semester 6: Internship and engineering seminar

Semester 7: Industrial project, inter-disciplinary labs, ethics, costing, thesis

A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• Specialist literature in other languages• Training in intercultural skills• Projects with partners in Germany and abroad• Language training provided• International comparisons and thematic reference to the international context• Content-related regional focus
Integrated internships	The programme structure includes an internship semester. The internship phase is scheduled for the fifth semester and comprises a total of 20 weeks.
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	112 EUR per semester, including a semester ticket for free public transport in the city of Schweinfurt
Costs of living	600–800 EUR
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	<ul style="list-style-type: none">• Compulsory scholastic aptitude test: TestAS with a minimum of 100 points in each module (Core Test and Subject-Specific Test: Engineering) or SAT (test requires a minimum composite score of 1,050) is required for all non-EU applicants in order to enrol.• Secondary education diploma (A level or equivalent)• If required: evidence of periods of study or certificates <p>Every qualification must be checked individually, depending on the educational background of each student.</p>
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For more information, please visit our website: <https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/admission-requirements/>.

Language requirements

- Evidence of knowledge of English at level B2, e.g. valid TOEFL iBT® test result of at least 83 points (Internet-based), IELTS 6.0, etc.
[Language entrance requirements: Technical University of Applied Sciences Würzburg-Schweinfurt \(thws.de\)](https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/admission-requirements/)
- Knowledge of German at A2 level (CEFR), there is an option to achieve this level by means of THWS courses during the first two semesters.

Application deadline

1 April to 15 June for the following winter semester

Submit application to

Applications have to be submitted online via our application portal.

Additionally, we require a pre-evaluation of your university entrance qualification from uni-assist (VPD), APS or ZAST/ZAB. Please check our homepage for further information: <https://international.thws.de/en/thws-international/ways-to-thws/incoming-full-time-students/application/>

Services

Possibility of finding part-time employment

In order to finance your living expenses during your studies, you can look for a student job. However, please note that your focus should always be on your studies.

Students from non-EU countries may work 120 full days or 240 half days per year. If you work as a student assistant at a university or a company, the number of days may be higher.

Students from EU countries: There are no restrictions.

Accommodation

Several halls of residence are located in Schweinfurt within short distance to the campuses, which offer facilities such as furnished rooms, Internet connection, and common areas. Further information can be found here:

<https://international.thws.de/en/thws-international/ways-to-thws/formalities-and-finances/accommodation/>

Career advisory service

The International Career Service at THWS offers events and information for students in English. Our events help with:

- studying successfully
- transitioning into professional life

In addition, we offer plenty of information about the topics:

- application
- job interview
- links to online job portals

<https://international.thws.de/en/thws-international/ways-to-thws/international-career-service/>

Support for international students and doctoral candidates

- Welcome event
- Tutors
- Accompanying programme

- Specialist counselling
- Cultural and linguistic preparation



©THWS

Creighton Ceisa (from Zimbabwe)
Student

THWS has got the best environment for students. The school has modern lecture rooms, very helpful staff, and the university is located within walking distance to the train station and the town centre.



Mechatronics Study Programme at THWS

In this video, you will get to know Rohan, a student in the Mechatronics programme. He is studying at the THWS, the University of Applied Sciences Würzburg-Schweinfurt, and in this video, he talks about what you can expect during your studies at the THWS and what you can look forward to. He shows you the labs, such as the 3D printing lab, and presents the projects taking place there.

» more:

https://www.youtube.com/watch?v=aq82Mi3cl_U

— Technical University of Applied Sciences — Würzburg-Schweinfurt (THWS)



Campus I in Schweinfurt

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About THWS

The Technical University of Applied Sciences Würzburg-Schweinfurt (THWS) was established in 1971, with campuses in two locations in Würzburg and Schweinfurt. Today, the THWS is one of the largest universities of applied sciences in Bavaria (southern Germany). As a public university, we guarantee an excellent academic education recognised throughout the world.

Course offerings

With its 10 departments and more than 40 undergraduate and postgraduate degrees, as well as six research institutes, the THWS offers a broad, practice- and future-oriented course programme. Within the THWS i-Campus concept, English Bachelor's programmes add to the wide range of German programmes. Courses take place in modern lecture rooms and laboratories equipped with innovative technology and state-of-the-art appliances.

Low student-teacher ratio

Studying at THWS is characterised by small study groups and a low student-teacher ratio. Through a great share of seminar papers, students learn to work independently. Additionally, project work promotes the students' team-working abilities.

Education with a special focus on application and practice

Almost 200 professors with solid professional experience from industry and business provide scientific education with special relevance to application and practice.

The university collaborates closely with regional and trans-regional businesses. Students benefit from this close collaboration by being able to do internships and having the possibility to write their Bachelor's theses in one of these companies. Moreover, they have the chance to build a network for their future career.

International focus

THWS excels due to its international orientation. For more than 30 years, the university has welcomed students from over 80 countries. Worldwide, THWS is associated with more than 170 universities.



📍 University location

Located in Bavaria

The university's location in Schweinfurt is situated in one of the most beautiful regions of Germany. Franconia, in the northern part of the federal state Bavaria, offers high recreational value as a region of cultural and culinary delight. Due to the favourable geographic location Schweinfurt is a perfect starting point to discover Germany and Europe. The international airports of Frankfurt am Main and Munich are within easy reach.

City of Schweinfurt

Schweinfurt, with a population of 57,000, is well known for its metal industry. Apart from accommodation at favourable prices and a reasonable cost of living, the town offers students an attractive environment with high recreational value. Thanks to the wide range of industry operating in the area and cooperation between our university and industrial partners, students can find good opportunities for

practical semesters and theses. Moreover, the region offers excellent job prospects.

Contact

Technical University of Applied Sciences Würzburg-Schweinfurt (THWS)
International Office

97070 Würzburg

Tel. +49 93135116500

✉ i-campus@thws.de

🌐 Course website: <https://imc.thws.de/>

📘 <https://www.facebook.com/THWSInternational>

🌐 <https://www.linkedin.com/groups/8554638/>

📷 <https://www.instagram.com/international.thws>

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International Programmes in Germany - Database

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

Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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