

APPLICATION

Embedded and Autonomous Systems

ADMISSION REQUIREMENTS

- Completed bachelor's degree in electrical engineering with at least 180 ECTS points
- Proof of English language skills at level B2
- Proof of German language skills at level A1
- Letter of motivation

APPLICATION DOCUMENTS

- degree diploma and transcript of records
- personal statement
- language certificate (English instruction language is not sufficient)

APPLICATION PERIOD

- National applicants: until August 31st
- EU applicants: until July 31st
- Non-EU applicants: until June 30th

Applications are also possible after the deadlines for courses with free capacities. Please contact us for more information.



NUMBERS AND FACTS

144

PROFESSORS

406

INTERNATIONAL STUDENTS

3.000

STUDENTS

155

INTERNATIONAL PARTNER UNIVERSITIES

62

COURSES OF STUDY



DEGREES

BACHELOR
GERMAN DIPLOMA
MASTER

FIELDS OF STUDY

TECHNOLOGY
ECONOMICS
HEALTHCARE
LANGUAGES
APPLIED ARTS



WESTSÄCHSISCHE HOCHSCHULE ZWICKAU

Kornmarkt 1, 08056 Zwickau
whz.de/english

Information on studying and applying

National applicants:
Dezernat Studienangelegenheiten/Studienberatung
+49 375 536-1184; studieren@fh-zwickau.de

EU and Non-EU applicants:

International Office
+49 375 536-1061; study@fh-zwickau.de

Information about the course

Faculty of Electrical Engineering
+49 375 536-1401
www.studiere-elektrotechnik.de

Die Westsächsische Hochschule Zwickau wird mitfinanziert durch Steuermittel auf der Grundlage des vom Sächsischen Landtag beschlossenen Haushaltes. Änderungen aller Angaben im Sinne der weiteren Ausgestaltung des Studienangebots sind vorbehalten.
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WHZ Westsächsische Hochschule Zwickau
University of Applied Sciences

FULL-TIME PROGRAMME

Embedded and Autonomous Systems

Master of Science (M.Sc.)



Embedded and Autonomous Systems

OVERVIEW

Imagine a world where vehicles navigate autonomously, machines make independent decisions, and interconnected systems communicate in real time. The technological revolution of embedded and autonomous systems is fundamentally transforming our society. In the master's program „Embedded and Autonomous Systems“ at the West Saxon University of Applied Sciences Zwickau, you will become an active part of this future.

Here, you will not only learn to develop intelligent systems but also understand how they interact and autonomously navigate complex environments. The combination of cutting-edge research, practice-oriented education, and international collaboration empowers you to actively shape innovative technologies.

Whether in the automotive industry, robotics, or industrial automation – the demand for experts in this field is rapidly growing. With a specialized program tailored to the latest industry requirements, you will be optimally prepared for a career in this dynamic sector. Join an innovative environment and help shape the future of connected and autonomous systems with us!



Degree: Master of Science (M.Sc.)

No. of semesters/Credits: 4 semester / 120 ECTS

Semester start: winter semester

Admission restriction: free of admission

Type of programme: full-time programme, consecutive

Tuition fees: no tuition fees / only administrative fee

CAREER PROSPECTS

After successfully completing the master's program Embedded and Autonomous Systems, a wide range of career opportunities will be open to you. You will be well prepared for roles in research and development, project management, or leadership positions in international technology companies.

Whether in the automotive industry, aerospace, or robotics – your expertise will be in high demand.

Additionally, the degree offers the opportunity to pursue a doctorate and paves the way for an academic career. Start your career now in a cutting-edge field and become part of the next generation of engineers and developers shaping the world of tomorrow.

STUDY SCHEDULE / STRUCTURE OF DEGREE

1. Semester

- Digital Signal Processing
- System Engineering
- Software Engineering
- Methods & Tools of Scientific Work
- Language Skills and Interdisciplinary Competencies I
- Measurement & Systems Technology

2. Semester

- Electric Drive Systems
- Programming of Embedded Systems
- Distributed Systems
- Language Skills and Interdisciplinary Competencies II
- Vehicle Dynamics & Control
- Elective Courses*

3. Semester

- Model-Driven Software Engineering
- Software Project
- Language Skills and Interdisciplinary Competencies III
- Algorithms for Autonomous Systems
- Research Project - Autonomous Systems
- Elective Courses*

4. Semester

- Masters Project

Elective Courses, e.g.:*

Selected Topics in Embedded Systems - Software Tools & Algorithms, Selected Topics in Embedded Hardware & System Design, Circuit Design & Simulation, Artificial Intelligence, Large Scale Data Processing, Responsible Computing: Ethics, Society & Security