# study facts

### Optimise your academic success
A mix of small groups, individual support and manifold learning formats offers ideal study conditions and prepares you most effectively for your career.

### Professional experience as part of your studies
A practical semester and projects with real clients help you to establish contacts in the professional world at an early stage.

### Benefit from the practical experience of our teaching staff
They come from the professional world, impart up-to-date knowledge and prepare you for the demands of the industry.

### State University
Our study programmes are accredited and therefore quality-assured. As a state university we do not charge tuition fees.

### Outstanding Place of Learning
According to UNESCO, h_da is an 'Outstanding Place of Learning for Sustainable Development'.

### More on studying at h_da:
h-da.de/praktischunschlagbar

### Study Programme Mechatronics
Faculty of Mechanical and Plastics Engineering
Schöfferstraße 3, Building C 12
64295 Darmstadt
Phone +49 6151 533-5650
sekretariat.fbmk@h-da.de

### Dual Study Programme
Mechatronics can also be pursued as a dual study programme:
**h-da.de/dual**

### Study Programme+
The study programme is also offered as Mechatronics+ (9 semesters), allowing more time, individual skills training and personal support.
**fbmk.h-da.de/mechatronik-bachelor/plus**

### Counselling & Advice
The first point of contact for most questions about studying is the Student Service Center, or SSC for short. In addition to study counselling and information on the details of the application procedure, the SSC also offers advice on the organisation or financing of your studies.

### Student Service Center
Schöfferstraße 3, Building C 23
64295 Darmstadt
Phone +49 6151 533-5555
studienberatung@h-da.de
**h-da.de/studienberatung**

### BAföG Student Grant & Student Accommodation
**studierendenwerkdarmstadt.de**

### Study Abroad
**international.h-da.de**

### All information about the study programme:
**fbmk.h-da.de/mechatronik-bachelor**

h_da
hochschule darmstadt

also offered as a dual programme

# Mechatronics

Bachelor of Science

member of
EUT+
EUROPEAN UNIVERSITY OF TECHNOLOGY

## Course Outline

The world of mechatronics encompasses many areas, such as 3D printing, driver assistance systems, Industry 4.0 and autonomous robots. The common thread is the development of intelligent networked systems with mechanical and electronic components.

The bachelor's programme in Mechatronics lies at the interface of mechanical and electrical engineering, as well as computer science. It enables students to understand, design and implement complex systems according to requirements. Over seven semesters, students acquire comprehensive basic engineering knowledge, which they put to practical use in project work and laboratory phases from the first semester onwards. Specialisation is offered in the fields of drive technology, automation and robotics. Furthermore, language skills and team qualifications are taught.

Optional preliminary courses and the Study Programme+ facilitate entry. The first year of study is closely interlinked with the Mechanical Engineering and Polymer Engineering study programmes, so that a change is possible. The EUT+ university alliance and established non-European partnerships offer a wide variety of study abroad opportunities.

**We have already taken on h_da students twice for their practical phase – they were well-prepared for HiL testing and test automation. Both wrote their theses with us and are now part of our team. The close cooperation with h_da ensures that we attract highly-trained young talent.“**

**Markus Steitz**
Test&Validation, tracetronic GmbH, Dresden

## Entry Requirements

- no admission restrictions (no NC)
- start of studies in the winter semester

The entry requirements include qualifications, such as:

- general higher education entrance qualification (allgemeine Hochschulreife)
- subject-specific higher education entrance qualification valid in Hesse (fachgebundene Hochschulreife)
- technical college entrance qualification valid in Hesse (Fachhochschulreife)
- vocational qualifications: h-da.de/studium-ohne-abi

Applications with a foreign certificate need to be made via uni assist.de/en. The 8-week pre-study internship may be completed either before or while studying.

## Career Prospects

Industries (selection):

- development, design, production, sales
- jobs at a technical level, in management positions or as a freelancer
- jobs in global companies or regional SMEs

Activities (selection):

- automation and robotics
- mechanical and plant engineering
- vehicle construction and drive technology
- aerospace technology
- information and entertainment technology
- chemical, process and process engineering
- management consulting