

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'.

Study Programme Mechanical Engineering

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

Mechanical Engineering can also be pursued as a dual study programme:
h-da.de/dual



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/maschinenbau-master



h_da
hochschule
darmstadt



also offered
as a dual
programme

Mechanical Engineering

Master of Science

More on studying at h_da:

h-da.de/praktischunschlagbar



member of
eut+
EUROPEAN UNIVERSITY
OF TECHNOLOGY

Course Outline

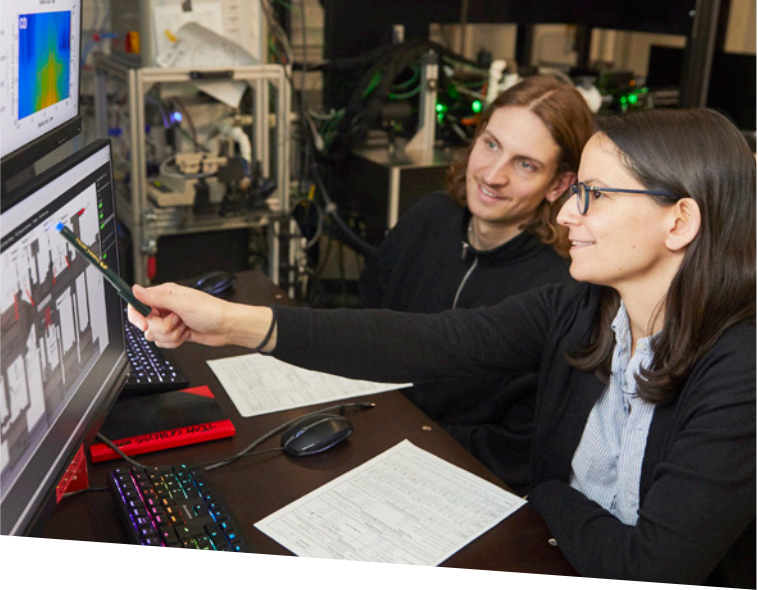
The master’s programme in Mechanical Engineering builds on basic engineering knowledge with a focus on sustainable product development over four semesters. Students can follow their individual interests by choosing modules from a wide range of core electives, e.g. Eco-Design, Regenerative Energy Conversion, Statistical Methods/AI or Process Control.

Practical activities in laboratories, on machines and with modern modelling and simulation tools complement theoretical knowledge in an application-oriented manner. In scientific project work, students contribute independently to current research topics, training their skills in methodical work and critical thinking in scientific contexts and with interdisciplinary references. Furthermore, the programme imparts leadership and teamwork skills.

Numerous industry contacts and the EUT+ university alliance ensure practical relevance, up-to-date content and international networking. A dual study programme with vocational and academic elements as well as a part-time programme alongside work are available.

The balanced mix of theoretical knowledge and practical application prepared me perfectly for my career start. The holistic approach taught during my studies has been particularly helpful in project management and has opened numerous doors for me in the course of my working life.”

Dipl.-Ing. Thorsten Kaebernick
Technical Applications Director, Coryton
Graduate of Darmstadt University of Applied Sciences



Entry Requirements

Admission to the master’s programme is granted to candidates having obtained a first degree in a technical engineering subject (bachelor’s degree or diploma, e.g. in Mechanical Engineering, Mechatronics, Automotive Engineering, Polymer Engineering, etc.) with an overall grade of “good”. In special cases, the Examination Board will decide on admission individually.

The programme usually starts in the winter semester. A start in the summer semester is also possible.

Career Prospects

- Industries (selection):
- mechanical and electrical engineering
 - plant engineering
 - automotive engineering
 - medical and environmental technology
 - aerospace technology

- Activities (selection):
- research and development
 - design and production
 - management positions
 - employed or self-employed

The Master’s degree provides an opportunity to pursue a doctorate and qualifies graduates for higher civil service positions.

Mechanical Engineering Master of Science					Career Prospects:
1 st semester	2 nd semester	3 rd semester	4 th semester		
Entry requirements: A qualified bachelor's degree or diploma in one of the fields of mechanical engineering, polymer engineering, process engineering, or mechatronics with an overall grade of 2.5 or better and at least 180 CP: • The faculty offers qualification courses for applicants lacking basic knowledge (e.g. in the fields of mathematics, engineering mechanics, thermodynamics) for the core subjects of the master's programme. Participation in and successful completion of these qualification courses may be defined by the Examination Board as additional courses to the regular master's programme for those applicants. • In individual cases, applicants with a grade of better than 3.0 and an ECTS grade of "C" or better may be admitted on application. The prerequisite for this is that candidates show a clear affinity to the field of study, in particular through good performance in basic subjects. • English language skills are recommended. For detailed and binding information, please refer to the BBPO.	Production Systems, 5CP	Advanced Thermodynamics & Renewable Energies, 5CP	Component Optimisation and Hybrid Lightweight Construction, 5CP	The master's degree	• qualifies graduates e.g. for positions in - research and development, - design and production, - management positions, - employed or as a freelancer in the following industries (selection) - mechanical and electrical engineering, - plant engineering, - automotive engineering, - medical and environmental technology, - aerospace technology. • qualifies graduates for higher civil service positions and • provides an opportunity to pursue a doctorate.
	Multibody Systems, 5CP	Structural Durability, 5CP	Ecological Assessment of Technical Products, 5CP		
	Mechanical Engineering Core Elective, 5CP	Mechanical Engineering Core Elective, 5CP	Mechanical Engineering Core Elective or Research Project, 5CP		
	Mechanical Engineering Core Elective, 5CP	Mechanical Engineering Core Elective or Research Project, 5CP	Mechanical Engineering Core Elective or Research Project, 5CP		
	Mechanical Engineering Core Elective, 5CP	Engineering Research Project, 5CP	Economics and Sustainability in Enterprises, 5CP		
		Interdisciplinary Challenges of Social Developments, 5CP	Economics and Sustainability in Enterprises, 5CP	The Diploma Supplement, which assigns an ECTS grade from A to E to the grade, simplifies the recognition of the degree abroad.	
CP: The size of the module blocks corresponds to the average amount of studying and learning required. Credit points (CP) are awarded for modules completed - usually 30 CP per semester.					
Colour legend: standard module practical phase final thesis					interdisciplinary qualifications