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Mechanical Engineering, MSc • Technische Hochschule Lübeck • Lübeck................................. 2
Master's degree

Mechanical Engineering, MSc
Technische Hochschule Lübeck • Lübeck

Overview

Degree
Master of Science in Mechanical Engineering

Teaching language
• English

Languages
Courses are held in English (100%), but the thesis project is in German industry. Therefore, knowledge of German and English are required.

Programme duration
3 semesters

Beginning
Winter and summer semester

More information on beginning of studies
The winter semester starts in September. The summer semester starts in March.

Application deadline
For the following summer semester:
EU applicants: 1 November to 15 January
Non-EU applicants: 1 October to 1 December

For the following winter semester:
EU applicants: 1 May to 15 July
Non-EU applicants: 1 April to 1 June

Tuition fees per semester in EUR
None

Combined Master’s degree / PhD programme
No

Joint degree / double degree programme
No

Description/content
Is engineering fascinating to you? Have been awarded a Bachelor’s degree in Mechanical Engineering? Are you looking for further qualification? Are you creative, flexible and looking for new challenges? Are you tempted by international studies and willing to implement that into your study programme? If your answer is yes, this is the right study programme for you!

The international Master’s programme in Mechanical Engineering at Lübeck University of Applied Sciences is based on a prior Bachelor’s degree in Mechanical Engineering. It provides you with a wide range of career opportunities. Students graduate from this course with the internationally acknowledged degree Master of Science (MSc).

The central focus for the MSc is new and different. Our approach is a strategic partnership between the students in the programme, their universities, and the industries. Our goal is to prepare you for the new challenges arising in an increasingly globalised world. Consequently, the language of
It is the intention of this programme to involve companies in the process of education and research. Students are strongly encouraged to take responsibility for their own studies. Therefore, the majority of Master's thesis projects are written in the industry. Your German language skills will help you to successfully apply for seminar and thesis projects. As a result, you create a sound scientific basis for your Master's thesis before your final semester starts.

In our Master's programme, you can choose between the specialisation/profile in Design and Systems Engineering and Materials Science and Engineering:

**DESIGN and SYSTEMS ENGINEERING**
The profile in Design and Systems Engineering focuses on the development and design of products and solutions using the latest technologies and methods in Mechanical Engineering (e.g. model-driven design, digital twin, intelligent systems). These key competences are the foundation to a successful positioning of Mechanical Engineering businesses in the international, globalised markets.

In this specialisation, you train and broaden your mindset with the aim to implement a philosophy of thinking above horizons and limitations while targeting innovative application technology that meets all relevant requirements – technical, social and environmental.

**MATERIALS AND ENGINEERING**
The profile in Materials Science and Engineering focuses on contemporary engineering materials, with emphasis on polymers, composite materials and metals. Materials have always played a major role in the development of new products and will be a key factor to a successful orientation of mechanical engineering in the future. In the past decades, there has been a permanent and progressive growth in the area of plastics, composite materials and high strength alloys.

In this specialisation, you train and broaden your in-depth-knowledge about the microstructure and mechanical behaviour of different materials. This profile teaches you how to develop innovative material solutions. As a result, it enables you to create innovative materials for the challenges of the globalised industry and actively shape the future of Mechanical Engineering.

An "International Design Engineer" special exchange programme is offered.

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**Course Details**

**Course organisation**

This programme's coursework is divided into three semesters (1.5 years = 90 ECTS). This is based on a German/European seven-semester Bachelor of Science programme (210 ECTS). The regular start of the programme is in the summer semester. Admission is offered each summer (March) and winter semester (September).

The first semester of the programme provides expanded fundamental knowledge such as Mechanics of Solids, Engineering Mathematics, Materials Science, etc. The second semester offers further specialisation, especially in the two profiles "Design and Systems Engineering" and "Materials Science and Engineering".

The third semester consists of the Master's project, a seminar, and the Master's thesis.

Students who start in the winter semester will study in reverse order. You will take your elective courses first and then continue with the more general courses in the summer term. Seminars are offered each semester, so there is no delay in concluding your studies.

Our industry-oriented classes, research projects, and theses offer further in-depth knowledge in various fields, qualifying you for future management positions. Consequently, electives in mechanical engineering and management are part of the curriculum.

Each profile allows you a high flexibility and individual focus on the selection of subjects.

In our Master's degree programme, you can choose between the following specialisation/profiles: "Design and Systems Engineering" and "Materials Science and Engineering".
You can match your elective classes to your thesis topic, personal goals and individual interests. In addition to our two compulsory modules in each profile, you will choose three more classes individually from the elective catalogues. (two from the field of Mechanical Engineering, one from the field of Management).

In addition, you have the opportunity to take courses or write your thesis at our partner universities without delaying your graduation.

In our "International Design Engineer" special partner programme, you can study one or two semesters abroad at our partner universities in Sweden or Poland and experience the following benefits: personality development, expanded professional expertise and building a network of international contacts. We are thus able to offer you an extended range of classes, subjects and know-how; significantly more than one single university would be able to provide. In addition, various exchange opportunities complete the options you have during your Master's degree studies.

Language course, career development, workshops, project weeks and sport activities complete the wide range of options and services that we offer to the students of our degree programme.

Of course, our programme is accredited, and it follows the international ECTS system for granting credits.

Our Master of Science programme in Mechanical Engineering offers students variety, international experience, and challenge! Take advantage of this chance!

### Types of assessment

- Written and oral exams, projects, seminars, scientific papers, labs, and presentations in accordance with guidelines
- Master's thesis and oral colloquium
- Programme comprises 90 ECTS

### International elements

- Other

### Description of other international elements

All courses are held in English. Various exchange options and our "International Design Engineer" special exchange programme are offered.

### Integrated internships

Students are strongly encouraged to take responsibility for their own studies. Therefore, the majority of Master’s thesis projects are written in industry. You will apply early and independently for an external thesis project and benefit from your company contacts in the second and third semester seminars.

### Special promotion / funding of the programme

- ERASMUS+
- Other (e.g. state level)

### Course-specific, integrated German language courses

Yes

### Course-specific, integrated English language courses

No

**Costs / Funding**
### Requirements / Registration

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition fees per semester in EUR</td>
<td>None</td>
</tr>
<tr>
<td>Semester contribution</td>
<td>Approx. 270 EUR per semester including public transportation</td>
</tr>
<tr>
<td>Costs of living</td>
<td>700 EUR per month</td>
</tr>
<tr>
<td>Funding opportunities within the university</td>
<td>Yes</td>
</tr>
<tr>
<td>Description of the above-mentioned funding opportunities within the university</td>
<td>Deutschlandstipendium and assistance for completion of Master’s thesis</td>
</tr>
</tbody>
</table>

### Academic admission requirements

Bachelor’s degree in mechanical engineering with 210 ECTS or equivalent and an overall grade of 2.5 (German grading system) or equivalent thereof

For further and more detailed information about our application process, see our website: [https://www.th-luebeck.de/en/hochschule/fachbereich-maschinenbau-und-wirtschaft/studiengaenge/mechanical-engineering-msc/overview/](https://www.th-luebeck.de/en/hochschule/fachbereich-maschinenbau-und-wirtschaft/studiengaenge/mechanical-engineering-msc/overview/)

NOTE: Application is only possible during the official application periods as stated on our website.

### Language requirements

**Good knowledge of English**

- English was the official language throughout the school education.
- at least five years of continuous language lessons in English during school education
- a stay in an English-speaking country with a duration of at least six months during a study programme or while working in an English-speaking country
- If English was the official language of the study programme qualifying you for the Master of Science Mechanical Engineering, your knowledge of English may be proven in this way.
- Results from an internationally accepted language test in English (for example, the TOEFL test) or “independent user” B2 or similar, according to CEFR (Common European Framework of References for Language) can be submitted. For more details, please see our website. Fulfilment of the criteria must be proven.

**Basic knowledge of German**

- German was the official language during their school education
- German was the official language of the study programme qualifying for the Master of Science Mechanical Engineering
- internationally acknowledged language test, minimum level A2, according to the CEFR

Applicants who have German skills at an A2 level will be expected to continue their German language education during their studies.

All language requirements have to be fulfilled and submitted before the end of the application deadline.

### Application deadline

For the following summer semester:
EU applicants: 1 November to 15 January
Non-EU applicants: 1 October to 1 December

For the following winter semester:
EU applicants: 1 May to 15 July
Non-EU applicants: 1 April to 1 June

Submit application to
Technische Hochschule Lübeck – University of Applied Sciences
c/o uni-assist e.V.
11507 Berlin
Germany

Online portal uni-assist

Services

Possibility of finding part-time employment
Due to the intensive nature of the programme, time for a part-time job is very limited. Therefore, we do not recommend it. But there are possibilities to work on campus or in industry. For most job offers, good knowledge of German is required.

Accommodation
Accommodation is available through the Student Services Office or on the private market. https://www.studentenwerk.sh/en
Rent for a single room in a student residence is approx. 260 EUR.

Career advisory service
Career advisory service is available.

Specific specialist or non-specialist support for international students and doctoral candidates
- Welcome event
- Buddy programme
- Specialist counselling
- Tutors

Contact

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Department of Mechanical Engineering and Business Administration
Coordination Office MSc Mechanical Engineering
Mönkhofer Weg 239
23562 Lübeck

✉️ mscmecheng@th-luebeck.de
Course website: https://www.th-luebeck.de/MM/

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