



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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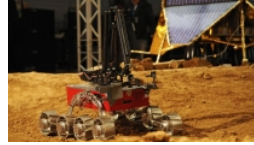
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# Master's degree



## Master of Space Engineering (MSE)

Technische Universität Berlin • Berlin



## Overview

Degree	Master of Science (MSc)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English.
Mode of study	Hybrid
Programme duration	4 semesters
Beginning	Summer semester
Application deadline	1 October for the following summer semester
Tuition fees per semester in EUR	6,248 EUR
Additional information on tuition fees	Full programme tuition for two years of study is 24,990 EUR. You can choose to pay for the Master's programme in one instalment or you can spread the payments with four instalments.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The course is offered by the Chair of Space Technology at Technische Universität Berlin. It aims to educate systems engineers equipped with the knowledge to become future leaders in the space industry.</p> <p>The highly project-oriented Master's programme focuses on space system design, space technology, space management and operation, and intercultural communication.</p> <p>Students have the opportunity to become involved in challenging space projects, working within intercultural teams, whilst benefiting from the world-leading expertise and network of Technische Universität Berlin in the field of space technology.</p>

A Master's thesis, either in one of the exciting research projects at the university or with an industry partner, completes the programme.  
The wide network of partners of the Chair of Space Technology in the European space industry provides MSE students with an opportunity to gain internship experience and establish valuable contacts during their studies.

## Course Details

### Course organisation

The programme is structured into four module groups and a Master's thesis, with an overall workload of 120 credit points (CPs).  
During the first three semesters, students select courses from the module groups A, B, C and D with a total of 90 CPs.

A - Space Technology

B - Space System Design

C - Space Management and Operations

D - Interdisciplinary

A Master's thesis, which completes the study programme, counts for 30 CPs.

#### Module group A - Space Technology

- Fundamentals of Space Technology
- Satellite Technology
- Space Electronics
- Radiation Workshop
- Spacecraft Dynamics and Control
- Space Propulsion Systems
- Space Sensors and Instruments

#### Module group B - Space System Design

- Space System Design Project
- Space Technology Project
- Planetary Exploration and Space Robotics

#### Module group C - Space Management and Operations

- Space Mission Planning and Operations
- Human Space Flight and Space Psychology
- Space Flight Mechanics
- Satellite Geodesy
- Satellite Communication

#### Module group D - Interdisciplinary

- Project Management
- Innovation Management and Entrepreneurship
- Soft Skills
- German for Engineers

You can find more about the programme's curriculum at <https://www.mse.tu-berlin.de/masters-programme/curriculum/>.

» PDF Download

### A Diploma supplement will be issued

Yes

### International elements

- International guest lecturers

<b>Integrated internships</b>	An internship is not compulsory in the MSE study programme. However, it is highly recommended. The opportunity to gain internship experience in the European space industry will be provided.
<b>Course-specific, integrated German language courses</b>	Yes
<b>Course-specific, integrated English language courses</b>	No

## Online learning

<b>Pace of course</b>	Instructor-led (Specific due dates for lectures/assignments/exams)
<b>Phase(s) of attendance in Germany (applies to the entire programme)</b>	Yes, compulsory
<b>Types of online learning elements</b>	<ul style="list-style-type: none"> <li>• Chats (with lecturers and other students)</li> <li>• Mobile learning apps</li> <li>• Online sessions</li> <li>• Online study material provided by institution</li> <li>• Online tutorials</li> <li>• Video learning (Pre-recorded videos, Vlogs, Video-Podcasts)</li> </ul>

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	6,248 EUR
<b>Additional information on tuition fees</b>	Full programme tuition for two years of study is 24,990 EUR. You can choose to pay for the Master's programme in one instalment or you can spread the payments with four instalments.
<b>Semester contribution</b>	In addition to the tuition fees, students have to pay an organisation fee of 307.54 EUR per semester, which includes a public transport ticket for six months.
<b>Funding opportunities within the university</b>	No

## Requirements / Registration

<b>Academic admission requirements</b>	<ul style="list-style-type: none"> <li>• Previous degree (at least Bachelor's or equivalent)</li> <li>• Minimum of one year of work experience, gained mainly after graduation (including relevant internship periods)</li> <li>• For more information, please visit the MSE website: <a href="http://www.mse.tu-berlin.de/admission/requirements">http://www.mse.tu-berlin.de/admission/requirements</a></li> </ul>
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**Language requirements**

English proficiency, proven by one of the following:

- TOEFL 80 (Internet-based), 213 (computer-based), 550 (paper-based); IELTS band 6 score (academic modules)
- Bachelor's degree completed in Australia, Canada, Great Britain, USA, Ireland or New Zealand
- English as mother tongue

**Application deadline**

1 October for the following summer semester

**Submit application to**

[www.mse.tu-berlin.de/admission/application-form/](http://www.mse.tu-berlin.de/admission/application-form/)

## Services

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**Possibility of finding part-time employment**

EU or EEA nationals have full access to the German job market. International students from non-EU or non-EEA countries can work a total of 120 full or 240 half days per year in Germany. Students who wish to work more require a permit from the "Agentur für Arbeit" (Federal Employment Agency) and the foreigners' authority. Employment as a student assistant at the university is not counted towards the 120 full or 240 half working days.

**Accommodation**

The choice of accommodation in Berlin is large and varied, from rooms in dormitories, shared flats and host families to hotels. Nevertheless, it is very important to start looking for suitable accommodation in advance, as demand is high. At <http://www.mse.tu-berlin.de/life-in-berlin/accommodation> you will find a selection of websites that may prove useful in your search for accommodation.

**Support for international students and doctoral candidates**

- Welcome event
- Specialist counselling
- Cultural and linguistic preparation

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# Technische Universität Berlin

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Technische Universität Berlin (TU Berlin) is an internationally renowned university located in the centre of Germany's capital. Founded in 1879, it is one of the country's largest and most prestigious research and education institutions. The lists of the university's alumni and professors include members of National Academies, two National Medal of Science laureates and ten Nobel Prize winners.

Today, with more than 30,000 students, TU Berlin is one of the largest universities of technology in Germany, offering a wide range of subjects.

TU Berlin has a distinctly cosmopolitan flair; it maintains a number of international cooperation projects and has an exceptionally high ratio of international students. More than 5,000 students from 130 countries study at TU Berlin. Moreover, many scientists from other countries teach and conduct research here.

As the main campus of the university is located in the centre of Berlin, it is easily accessible from all parts of the city. You can find out more about the university on its official website: <http://www.tu-berlin.de>



## University location

Population: 3.8 million (from 190 countries)

## Contact

**Technische Universität Berlin**

Chair of Space Technology

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🌐 Course website: <https://mse.tu-berlin.de>

📘 <http://www.facebook.com/mse.tub>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.  
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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://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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Federal Ministry  
of Education  
and Research