



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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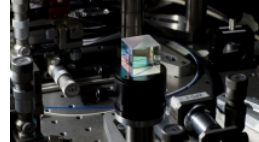
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# Master's degree



## MSc Physics

Technical University of Darmstadt • Darmstadt



## Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	All mandatory courses and a large number of electives are offered in English. In the elective areas, it is also possible to take courses in German.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	<p>The application period:</p> <ul style="list-style-type: none"><li>for the winter semester – starts on 1 June and ends on 31 August</li><li>for the summer semester – starts at the beginning of December and ends on 15 March</li></ul> <p>You can find further information <a href="#">here</a>.</p> <p>The applications are processed as they come in. We recommend to apply early in order to get early admission.</p>
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The MSc Physics programme, which is taught in English, allows for specialisation in the areas of "Nuclear Physics and Astrophysics" or "High Energy Density in Matter". Within your chosen specialisation, you can go further in-depth or study other subject areas. The content of the Master's programme can be chosen on a completely individual basis. The programme includes in-depth and

special lectures as well as courses in the field of experimental and theoretical physics. The following specialisations are possible:

- Nuclear Physics and Astrophysics
- High Energy Density in Matter
- or an individual specialisation

In addition, students can choose interdisciplinary courses from the course catalogue of the Technische Universität Darmstadt to expand their knowledge. A one-year research phase complements this broad spectrum.

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## Course Details

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Course organisation	The international Master's programme in Physics is a four-semester programme. The first two semesters consist of lectures and seminars. You will complete the "Practical Introduction to Scientific Research" in the third semester, followed by a Master's thesis in the fourth semester. This gives you the opportunity to work on a research project for a whole year.  <a href="#">» PDF Download</a>
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"><li>• Language training provided</li><li>• Training in intercultural skills</li></ul>
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

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## Costs / Funding

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Tuition fees per semester in EUR	None
Semester contribution	The registration fee totals about 340 EUR per semester. This includes administrative fees and the semester ticket ("Deutschlandticket"). The area of validity of the semester ticket will be extended to all transportation organisations and lines participating in the "Deutschlandticket" offer throughout Germany.  <a href="#">Registration fees</a>
Costs of living	All information about costs of living is provided on the following pages: <a href="#">costs and budget</a> .
Funding opportunities within the university	Yes
Description of the above-	Scholarship for international female students in international Master's studies:

mentioned funding opportunities within the university

Join the [Ira Rischowski Programme](#) and be part of a pioneering community of women shaping the future in nuclear physics, astrophysics, accelerator physics, and nuclear photonics.

Information on further scholarships for international students, can be found [here](#).

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## Requirements / Registration

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### Academic admission requirements

The programme leading to the degree of Master of Science in Physics is designed as a challenging and research-oriented Master's programme and continues as a consecutive programme after the Bachelor of Science in Physics, which is taught in German.

Admission to the Master's degree programme requires knowledge of physics and mathematics to an extent that can be acquired in the German-taught degree programme leading to a Bachelor of Science in "Physik" at the TU Darmstadt.

The following is [required for admission](#):

- to understand and analyse problems in physics based on expert knowledge of the fundamentals of physics and basic knowledge in mathematics and natural sciences
- to have knowledge of the content relationships both between the individual core subjects of physics and between physics and other disciplines
- to be able to select suitable physical methods for processing tasks from current research and development, and the ability to develop conceptual solutions and to implement them practically as well as to familiarise oneself with new methods in physics
- to critically reflect on scientific methods and results
- to work alone as well as in teams and in interdisciplinary environments
- to document work in writing according to scientific standards
- to prepare work orally and communicate both with a specialist audience and the non-specialist public
- to recognise and assess subject-specific, social and ethical aspects and consequences of their actions
- to play a decisive role in shaping social processes critically, reflectively and with a sense of responsibility and democratic public spirit

### Language requirements

[You will find the current language requirements here.](#)

For Master's degree programmes with English as the language of study, required evidence of English proficiency must be presented through one of the following certificates:

- IELTS 6.5
- PTE Academic 64
- Cambridge University – Certificate in Advanced English (CAT)
- TOEFL ITP 627
- TOEFL Paper 550
- TOEFL cBT 213
- TOEFL iBT (includes Special Home Edition) 95
- TOEIC Listening 490 / Reading 455 / Speaking 200 / Writing 200
- Oxford On-Line Placement Test (OOPT) 80
- Michigan English Test (MET) 64
- Confirmation from the university at which you completed your degree programme that English was the language of instruction in the programme

### Application deadline

The application period:

- for the winter semester – starts on 1 June and ends on 31 August
- for the summer semester – starts at the beginning of December and ends on 15 March

You can find further information [here](#).

The applications are processed as they come in. We recommend to apply early in order to get early admission.

Submit application to

Please apply via the [online application](#) of TU Darmstadt.

## Services

### Accommodation

**TU Darmstadt's** International Affairs Department assists international students in their search for accommodation through its Housing Assistance Office. A major science hub, Darmstadt is home to multiple research institutions, three universities, and many high-technology companies, all of which attract people from around the world. A wide variety of accommodations that vary in size, furnishing, and rent are available in Darmstadt and its vicinity. As the university does not own or manage student housing, we support students in finding housing in private and public student dormitories or on the private market. In order to improve your chances in finding the optimal place to live, we recommend that you start your search early. We are happy to assist you in this process. Please make sure to register online on the [housing assistance website](#) for international students.

Our services include the distribution of an “Accommodation Guide” that includes links to private and public student dormitories, hotels and youth hostels, and a “Housing Guide” that provides tips on how to search for accommodation in Darmstadt.

### Support for international students and doctoral candidates

- Specialist counselling



## Master Physics at TU Darmstadt

Video introduction to the Master's in Physics at the TU Darmstadt

» more: [https://download.hrz.tu-darmstadt.de/media/FB05/Dekanat/TUD-230184\\_Werbevideo\\_Master\\_Physics.mp4](https://download.hrz.tu-darmstadt.de/media/FB05/Dekanat/TUD-230184_Werbevideo_Master_Physics.mp4)



Technical University of Darmstadt - Residence Science Castle

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## TU Darmstadt

By choosing **TU Darmstadt**, you are making an investment in your personal and professional future. Committed to academic rigour, cutting-edge research, and interdisciplinary collaboration, **TU Darmstadt** provides its community with an environment that sparks innovation. Our challenging 113 academic programmes allow students to gain international experience at an early stage while preparing them for successful careers in research, education, and the private sector.

In addition to its acclaimed strengths in engineering and technology, **TU Darmstadt** offers prospective students a wide range of study programmes in the natural sciences, social sciences, and the humanities.

### Our subject profile:

50% Engineering

35% Natural Sciences

15% Humanities

Founded in 1877, **TU Darmstadt** is one of Germany's leading universities of technology and a member of TU9, a network of the most distinguished German institutes of technology. **TU Darmstadt** is also the coordinator of the European University **UNITE! (University Network for Innovation, Technology and Engineering)** – an alliance of nine leading European universities of technology.

**TU Darmstadt** has a global reputation for outstanding technology transfer through industrial partnerships, award-winning teaching facilities, and highly ranked research output. Its distinct focus on interdisciplinary cooperation works as a catalyst for innovative approaches to technology in research and everyday life applications.

Committed to an international orientation in teaching and research, as well as the promotion of values like open-mindedness and mutual respect, TU Darmstadt is home to a diverse community of students and researchers from 120 countries. With more than 300 partner universities around the globe and 40 double degree programmes as well as a strong network of industrial partners in the region, our alumni are sought-after professionals on the local, national, and international level. The QS Graduate Employability Ranking regularly ranks **TU Darmstadt** among the best universities in the world.

At **TU Darmstadt**, it is our priority to support international students in navigating this new environment. The **International Student Services (ISS)** team is happy to assist you before and during your stay.



## 📍 University location

With around 160,000 inhabitants and well over 40,000 students (roughly 26,000 of whom are at **TU Darmstadt**), the **science city of Darmstadt** offers a high quality of life as well as numerous cultural and tourist attractions in the immediate vicinity. Due to the city's location in the centre of the **dynamic Rhine-Main region** and an excellent public transportation system, **Darmstadt** is well connected to destinations in **Germany** and around Europe.

A metropolitan high-tech centre in the heart of Europe, **Darmstadt** is the birthplace of numerous inventions that have changed our daily lives: from the radio-controlled clock, Plexiglas®, and the first enzyme-based washing agent to the liquid crystals in our mobile phones and notebooks. As the home of Art Nouveau, the internationally renowned European Space Agency, and research facilities like Fraunhofer Institutes, **Darmstadt** offers a creative and innovative milieu for living, studying and conducting research.

- Getting around: All TU students will be equipped with a semester ticket ("**Deutschland Semester Ticket**" in German). The "Deutschlandticket" entitles students to use all public transport in Germany.
- The **University Sports Centre** at **TU Darmstadt** gives students the opportunity to find a healthy balance between work and personal life. There are also plenty of opportunities to participate in activities at the university stadium or swimming pool. Entry is free of charge to both facilities. During the ongoing pandemic, students have the option of taking online classes.
- Finally, **TUtor International** is a project at **TU Darmstadt** supporting international students culturally, academically and socially. Our aim is to assist international students with their orientation and integration into student life and German society. As a multicultural and international team, we are well aware of the differences in cultural backgrounds, and we are here for you as companions and friends. Connect with us on [Instagram](#) and [Facebook](#).

## Contact

### Technical University of Darmstadt

Department of Physics  
Studienbüro / Office for Student Affairs

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🌐 Course website: [https://www.physik.tu-darmstadt.de/lehre\\_physik/studiengaenge/master\\_physics\\_engl/index.en.jsp](https://www.physik.tu-darmstadt.de/lehre_physik/studiengaenge/master_physics_engl/index.en.jsp)

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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

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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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