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# Master's degree



## Mathematical Physics (MSc)

University of Tübingen • Tübingen

### Overview

Degree	Master of Science in Mathematical Physics
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	<p>The course language is English.</p> <p>It is possible to attend some elective courses in German if desired. German language courses specially designed for international Master's and PhD students are available at the university's House of Languages. The full German language course programme is available at: <a href="http://www.uni-tuebingen.de/en/1056">www.uni-tuebingen.de/en/1056</a>.</p>
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	1 March to 15 July (deadline only for non-EU students)
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	Approx. 1,500 EUR per semester for students from non-EU countries, as detailed on the course website
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>In the University of Tübingen Master's programme in mathematical physics, students will learn advanced mathematical concepts and fundamental physical theories in a specific interdisciplinary study programme.</p> <p>In contrast to several other programmes in mathematical physics, the Tübingen programme focuses on established physical theories with important applications in science and technology. The main areas are quantum theory, general relativity, and statistical physics, reflecting the main research areas present in Tübingen's Mathematics and Physics Departments.</p>

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## Course Details

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**Course organisation**      Apart from the mandatory core modules – Geometry in Physics, Mathematical Quantum Theory, Mathematical Relativity, and Mathematical Statistical Physics – students can choose from a wide variety of advanced courses in mathematics, theoretical physics, and mathematical physics. Thereby they can specialise according to their personal preferences in certain areas of mathematics and/or physics. During the second year, we offer a mathematical physics colloquium in which students learn about recent developments in mathematical physics and also present the results of their own Master's thesis research.

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**A Diploma supplement will be issued**      Yes

**International elements**

- International guest lecturers
- Specialist literature in other languages

**Integrated internships**      An international placement is optional.

**Course-specific, integrated German language courses**      No

**Course-specific, integrated English language courses**      No

## Costs / Funding

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**Tuition fees per semester in EUR**      Varied

**Additional information on tuition fees**      Approx. 1,500 EUR per semester for students from non-EU countries, as detailed on the course website

**Semester contribution**      Enrolment fees at the University of Tübingen are currently approx. 160 EUR per semester. This includes use of local public transport free of charge from Mondays to Fridays in the evening, on weekends and on public holidays. In addition, students may purchase a semester ticket for unlimited use of public transport in the city of Tübingen and the surrounding area (currently approx. 140 EUR).

**Costs of living**      Estimated basic student expenses are around 950 EUR per month according to the Tübingen Student Services organisation (“Studierendenwerk”), including rent for student accommodation. Rent for private accommodation will be more expensive.

**Funding opportunities within the university**      No

# Requirements / Registration

<b>Academic admission requirements</b>	Academic admission requirements include a Bachelor's degree in mathematics or physics with a grade of at least 2.5 (German grading system) and a solid background in both mathematics and physics.
<b>Language requirements</b>	Applicants must provide proof of their English skills. English language proficiency: TOEFL 95, IELTS 6.0, native speaker or English-language Bachelor's degree, or English B2 (also possibly English as first language at the German "Abitur" level)
<b>Application deadline</b>	1 March to 15 July (deadline only for non-EU students)
<b>Submit application to</b>	Online application: <a href="https://uni-tuebingen.de/en/4204">https://uni-tuebingen.de/en/4204</a>  For questions regarding the application process, please contact the International Students Admissions Office, e-mail: <a href="mailto:study@uni-tuebingen.de">study@uni-tuebingen.de</a>

## Services

<b>Possibility of finding part-time employment</b>	Students may find jobs as graduate research assistants or teaching assistants for projects of the Department of Mathematics or Physics.
<b>Accommodation</b>	<p>Accommodation is available through the Student Services organisation ("Studierendenwerk") or on the private market. Rooms in student accommodation cost approx. 200 to 400 EUR per month. As Tübingen is a very attractive place to live, private accommodation is more expensive and can take some effort to find. To make sure you find a suitable place to live, you should start looking as early as possible.</p> <p>We recommend you apply for student accommodation through the "Studierendenwerk" at the same time that you apply for admission to the Master's programme (<a href="https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/">https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/</a> and <a href="https://www.my-stuwe.de/en/housing/faqs/">https://www.my-stuwe.de/en/housing/faqs/</a>) and send in a copy of your notification of admission as soon as you have received it (your application won't be finally processed before the "Studierendenwerk" has received proof of your admission). For further information, check out the "Studierendenwerk" pages on housing in Tübingen (<a href="https://www.my-stuwe.de/en/housing/housing-infos/">https://www.my-stuwe.de/en/housing/housing-infos/</a>).</p>
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Welcome event</li><li>• Tutors</li></ul>
<b>General services and support for international students and doctoral candidates</b>	<p>The university offers a number of "onboarding" services for newly arriving international students. These include:</p> <ul style="list-style-type: none"><li>• a help desk</li><li>• a buddy programme</li><li>• an advisory programme: "How to Study at the University of Tübingen"</li><li>• a wide range of social activities offered by student groups.</li></ul> <p>For further information, please refer to: <a href="https://uni-tuebingen.de/en/182071">https://uni-tuebingen.de/en/182071</a>.</p>

A student initiative offers a buddy programme and a wide range of social activities during the orientation week and throughout the semester ([www.studit-tuebingen.de/en/](http://www.studit-tuebingen.de/en/)).

Furthermore, there is the Office for Advising and Admission of International Students (<http://www.uni-tuebingen.de/en/90787>).

#### Supervisor-student ratio

Typical courses have 10–20 participants. One professor supervises about two Master's theses at a time.

# University of Tübingen



Campus of the Faculty of Science

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Innovative, interdisciplinary, international: These three words summarise what makes the University of Tübingen special. Excellent research and teaching are Tübingen's answer to the challenges of the future in a globalised world. We maintain exchanges with partners around the globe. Networks and cooperation across faculty and subject boundaries are the pillars of our successful strategy. This is reflected in our good position in international rankings. In addition, we are one of the eleven German universities distinguished with the title of "excellent."

The University of Tübingen has been a place of top-level research and excellent teaching for more than 500 years. Some 28,500 students from Germany and around the world are enrolled here in our more than 200 study programmes, including numerous international programmes taught entirely in English.

The University of Tübingen is a member of the European University Alliance "CIVIS – A European Civic University" (<https://civis.eu/en>), offering a wide range of special exchange opportunities for students).



## 📍 University location

Tübingen...

- is in south-western Germany, about 40 kilometres south of Stuttgart.
- has some 93,000 inhabitants. The town's many students and its numerous young families make Tübingen Germany's youngest city by average age.

- is one of the most coveted places to study in Germany – both because of the excellent conditions for students and researchers, and the unique charm of the town.
- boasts a renowned historic centre with many cafés, restaurants, and shops, and outstanding cultural activities.
- is a very safe place to be, with excellent public transport.
- is well known for its eco-friendly attitudes.
- is surrounded by beautiful countryside. The Black Forest and the Swabian Jura hills are not far away and provide excellent opportunities for climbing, canoeing, hiking, biking – and skiing in winter.

## Contact

### University of Tübingen

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🌐 Course website: <https://www.math.uni-tuebingen.de/en/mmp>

📘 <https://de-de.facebook.com/mmptue/>

📺 <https://www.youtube.com/watch?v=nJM-xmvy4Tc>

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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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