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# Master's degree

**Mathematical Physics (MSc)**

*University of Tübingen • Tübingen*

## Overview

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<tr>
<th><strong>Degree</strong></th>
<th>Master of Science in Mathematical Physics</th>
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<tr>
<td><strong>Teaching language</strong></td>
<td>• English</td>
</tr>
<tr>
<td><strong>Languages</strong></td>
<td>The course language is English. Some of the elective courses are conducted in German. German courses specially designed for international Master’s and PhD students are available at the university’s House of Languages. The full German course programme is available at: <a href="http://www.uni-tuebingen.de/en/1056">www.uni-tuebingen.de/en/1056</a>.</td>
</tr>
<tr>
<td><strong>Full-time / part-time</strong></td>
<td>• full-time</td>
</tr>
<tr>
<td><strong>Programme duration</strong></td>
<td>4 semesters</td>
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<tr>
<td><strong>Beginning</strong></td>
<td>Winter semester</td>
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<tr>
<td><strong>Application deadline</strong></td>
<td>1 March – 15 July (for non-EU students)</td>
</tr>
<tr>
<td><strong>Tuition fees per semester in EUR</strong></td>
<td>Varied</td>
</tr>
<tr>
<td><strong>Additional information on tuition fees</strong></td>
<td>Approx. 1,500 EUR per semester for students from non-EU countries</td>
</tr>
<tr>
<td><strong>Combined Master's degree / PhD programme</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Joint degree / double degree programme</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Description/content</strong></td>
<td>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. 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.</td>
</tr>
</tbody>
</table>
Course Details

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.

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

Tuition fees per semester in EUR
1,500 EUR

Additional information on tuition fees
Approx. 1,500 EUR per semester for students from non-EU countries

Semester contribution
Enrolment fees at the University of Tübingen are currently about 160 EUR per semester. This includes use of local public transport free of charge from Monday to Friday (in the evenings), at 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 about 110 EUR).

Costs of living
Estimated basic student expenses are about 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
### Academic admission requirements

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.

### Language requirements

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).

### Application deadline

1 March – 15 July (for non-EU students)

### Submit application to

Online application: [https://uni-tuebingen.de/en/international/study-in-tuebingen/application-for-non-german-students/application-and-admission-of-international-students/](https://uni-tuebingen.de/en/international/study-in-tuebingen/application-for-non-german-students/application-and-admission-of-international-students/)

For questions regarding the application process, please contact the International Students Admissions Office, e-mail: study@uni-tuebingen.de

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### Services

#### Possibility of finding part-time employment

Students may find jobs as graduate research assistants for projects of the Department of Mathematics or Physics.

#### Accommodation

Accommodation is available through the student services organisation (“Studierendenwerk”) or on the private market. Rooms in student accommodation cost approx. 200–400 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.

We recommend you apply for student accommodation through the “Studierendenwerk” at the same time that you apply for admission to the Master’s programme ([https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/](https://www.my-stuwe.de/en/housing/halls-of-residence-tuebingen/) and [https://www.my-stuwe.de/en/housing/faqs/](https://www.my-stuwe.de/en/housing/faqs/)) and send in a copy of your notification of admission as soon as you receive it. (Your application won’t be processed until the “Studierendenwerk” has received proof of your admission.) For further information, check out the “Studierendenwerk” website on housing in Tübingen ([https://www.my-stuwe.de/en/housing/housing-infos/](https://www.my-stuwe.de/en/housing/housing-infos/)).

#### Support for international students and doctoral candidates

- Welcome event
- Tutors

#### General services and support for international students and doctoral candidates

The university offers a number of "on-boarding" services for newly arriving international students, including:

- a help desk
- a buddy programme
- an advisory programme called How to Study at the University of Tübingen
- a wide range of social activities offered by student groups

For more information, please see: [https://uni-tuebingen.de/en/182071](https://uni-tuebingen.de/en/182071).

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/)).
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 28,160 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), which offers a wide range of special exchange opportunities for students.

Furthermore, there is an 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 location
Tübingen

- is located in south-western Germany, about 40 kilometres south of Stuttgart.
- has some 90,000 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
Faculty of Science
Department of Mathematics

Prof Dr Stefan Teufel

Auf der Morgenstelle 10
72076 Tübingen

✉️ mmp@math.uni-tuebingen.de
🔍 Course website: https://www.math.uni-tuebingen.de/en/mmp
🔗 https://de-de.facebook.com/mmptue/

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www.daad.de/international-programmes
www.daad.de/sommerkurse

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DAAD - Deutscher Akademischer Austauschdienst e.V.
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Section K23 – Information on Studying in Germany
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany
Consortium for International Higher Education Marketing
www.gate-germany.de

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