



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Joint European Master's in Interdisciplinary Mathematics

Hamburg University of Technology • Hamburg

### Overview

Degree	Joint Master of Science
In cooperation with	Universita degli Studi dell' L'Aquila Universitat Autònoma de Barcelona Technische Universität Wien Université Côte d'Azur
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English.  One local language course per semester is provided (Italian, German, French, or Spanish).
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Beginning of March
Tuition fees per semester in EUR	Yes
Additional information on tuition fees	<a href="https://www.intermaths.eu/erasmus-mundus/apply#emjmd-scholarships">https://www.intermaths.eu/erasmus-mundus/apply#emjmd-scholarships</a>
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	While applied mathematics has a long-standing history and tradition in classically related fields such as physics and engineering, it was only in recent years that research scientists started to rely on applied mathematicians to develop more refined and adequate models and techniques to be used in real-world applications. In fact, over the past 20 years, there has been an explosion of new mathematical tools used in biology, medicine, social sciences, material sciences, manufacturing, artificial intelligence, and big data. Higher education has only recently started to formulate such recent developments in the framework of well-structured study programmes encompassing both

mathematics and real-world applications. This is partly due to academic research still being structured, to some extent, in separate compartments. This leads to the likely consequence that a very useful applied mathematical result may have poor chances of being published in a renowned mathematical journal (unless it features truly innovative maths, no matter what the application is).

The **Joint European Master's in Interdisciplinary Mathematics** aims at being a forerunner in this sense. We are an academic programme that provides both advanced modern mathematics and a strong focus on real-world applications. The programme takes advantage of the very diverse skills and competencies shared by the InterMaths Network partners. Such diversity defines the programme's aims and objectives in that it provides complementary skills combining mathematics and other applied disciplines. To perform this task, the Joint European Master's in Interdisciplinary Mathematics programme is structured into two years spent at two different universities (at which the student is enrolled at the same time) in at least two different countries. Our set of curricula covers a broad range of topics, mostly depending on the partners that are involved. After receiving an adequate and modern methodological preparation for the study and development of mathematical models in the first part of the programme, candidates will then have the opportunity to choose their second-year destination depending on the specialisation offered by the institutions involved. Each graduate will possess the proper mindset of an applied mathematician; this will be combined with the capability to dialogue with experts from other sectors. Depending on the study path followed, students will be ready to **undertake a PhD in Applied Mathematics** as well as start a **career in business, industry, and government**.

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## Course Details

Course organisation	<a href="https://www.intermaths.eu/erasmus-mundus/structure">https://www.intermaths.eu/erasmus-mundus/structure</a>
A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none"> <li>• International guest lecturers</li> <li>• Integrated study abroad unit(s)</li> <li>• Language training provided</li> <li>• Courses are led with foreign partners</li> </ul>
Integrated study abroad unit(s)	<a href="https://www.intermaths.eu/erasmus-mundus/about#programme-detail">https://www.intermaths.eu/erasmus-mundus/about#programme-detail</a>
Special promotion / funding of the programme	<ul style="list-style-type: none"> <li>• ERASMUS+</li> </ul>
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

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## Costs / Funding

Tuition fees per semester in EUR	Yes
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<b>Additional information on tuition fees</b>	<a href="https://www.intermaths.eu/erasmus-mundus/apply#emjmd-scholarships">https://www.intermaths.eu/erasmus-mundus/apply#emjmd-scholarships</a>
<b>Semester contribution</b>	Approx. 350 EUR
<b>Costs of living</b>	Around 900 EUR per month
<b>Funding opportunities within the university</b>	Yes
<b>Description of the above-mentioned funding opportunities within the university</b>	To a limited extent, partial funding in the form of performance-related scholarships, scholarships linked to support work, and scholarships for the final phase of the programme is available for international students at TUHH. For more information, please refer to <a href="https://www.tuhh.de/tuhh/en/education/students/organisational-details-about-your-studies/financing-your-studies">https://www.tuhh.de/tuhh/en/education/students/organisational-details-about-your-studies/financing-your-studies</a> .

## Requirements / Registration

<b>Academic admission requirements</b>	Candidates for the MSc will be required to: (i) possess a Bachelor's degree or equivalent (at the equivalent of First Class Honours level) in mathematics, physics, engineering, or natural science; and (ii) demonstrate an appropriate level of competence in the English language (details see below).
<b>Language requirements</b>	Students must demonstrate an appropriate level of competence in the English language. Specifically, they must provide proof of one of the following tests: IELTS 6.0, TOEFL minimum score for Internet-based test 80, Advanced Cambridge (C1, 169 or more), or PTE Academic minimum 56.
<b>Application deadline</b>	Beginning of March
<b>Submit application to</b>	Please apply directly to the Università degli Studi dell' L'Aquila:  <a href="https://www.intermaths.eu/erasmus-mundus/apply#application-form">https://www.intermaths.eu/erasmus-mundus/apply#application-form</a>

## Services

<b>Accommodation</b>	The TUHH accommodation office provides advice and assistance regarding accommodation.
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"> <li>• Welcome event</li> <li>• Buddy programme</li> <li>• Tutors</li> <li>• Accompanying programme</li> <li>• Specialist counselling</li> <li>• Visa matters</li> <li>• Pick-up service</li> </ul>

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## Our Partners



# Hamburg University of Technology



TU Hamburg

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The Hamburg University of Technology (TUHH) was founded in 1978 and specialises in training engineers. There are 6,500 students registered at the university; almost one in every five students is of foreign nationality.

## University location

Germany's second-largest city, Hamburg, is an exciting place to live. It offers its residents close proximity to water and green spaces in combination with the benefits of living in the middle of a vibrant metropolis.

Hamburg is one of the most dynamic commercial centres in Europe. Modern services in the logistics, technological, and media sectors have taken their place alongside modern industrial production and traditional trade in shaping Hamburg's economy. As a global hub for overseas transport in Central and Eastern Europe as well as the entire Baltic Sea region, Hamburg benefits from its central position at the heart of Europe's logistical commodity flows. Hamburg is well known as an important place for maritime systems and the shipbuilding industry. The city is also one of the most significant centres for the civil aviation industry worldwide. In Hamburg, environmental awareness has a long history, which will continue on into the future. Today, the Hanseatic city is known as one of the leading centres of research on climate change, the global challenge of our time. The presence of several leading companies makes Hamburg a centre of renewable energy technologies, such as wind power systems.

## Contact

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Last update 08.07.2024 02:18:02

# 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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German Academic Exchange Service

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[www.daad.de](http://www.daad.de)

## 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".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry  
of Education  
and Research