



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



## Table of Contents

|  |          |
|--|----------|
| <b>Master's degree .....</b>   | <b>2</b> |
| <b>International Master's Programme in Physics • Heinrich Heine University Düsseldorf • Düsseldorf..</b> | <b>2</b> |

# Master's degree



## Overview

|  |   |
|--|---|
| Degree                                   | Master of Science in Physics  |
| Teaching language                        | <ul style="list-style-type: none"><li>English</li></ul>   |
| Languages                                | Most of the courses are held in English. Only a few non-compulsory courses are taught in German. The programme can be completed with English as the only language of instruction. German courses for non-German speaking students are offered on campus.  |
| 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                     | German and EU applicants: 15 September for the following winter semester, 15 March for the following summer semester<br>Non-EU applicants: 15 June for the following winter semester, 15 January for the following summer semester<br>Applications are usually processed within six weeks of receipt.   |
| Tuition fees per semester in EUR         | None  |
| Combined Master's degree / PhD programme | No  |
| Joint degree / double degree programme   | No  |
| Description/content                      | <p>The Master's programme in Physics at the Heinrich Heine University Düsseldorf is a programme which is specially tailored to let the students take advantage of our particular strengths. The main research topics at the Department of Physics are soft matter physics, solid state physics &amp; nanophysics, quantum optics &amp; quantum information, plasma physics and medical physics\biophysics. Every Master's student has to choose two of these research topics as focus areas. Each focus area contains an experimental as well as a theoretical module. At the end of the programme, research work is carried out in one of the research groups at the Department of Physics during the Master's thesis.</p> <p>Additional modules in other areas of physics, such as laser physics, astrophysics, computational physics, and advanced quantum mechanics are offered on a regular basis.</p> |

## Course Details

|  |  |
|--|--|
| Course organisation                                  | <p>In the first year, the modules typically consist of lectures in combination with exercise classes. In the second year, the emphasis is on seminars, practical courses, and research work.</p> <p>First year:</p> <ul style="list-style-type: none"><li>• two focus areas (two modules each) to be chosen from our main research topics</li><li>• four elective physics modules to be chosen from the remaining research topics: laser physics, computational physics, astrophysics, advanced quantum mechanics, and others</li><li>• general elective modules (typically German language courses for international students)</li></ul> <p>Second year:</p> <ul style="list-style-type: none"><li>• state-of-the-art research in one of the focus areas at an international level</li><li>• first half of second year: additional elective physics modules and specialisation module (emphasis on practical training of methods and tools for research work; detailed knowledge up to the state-of-the art level)</li><li>• second half of second year: thesis research (experimental or theoretical; guided, but independent) in the chosen specialisation</li></ul> <p>We encourage the personal interaction between students and teachers. We enjoy an excellent teacher-student ratio.</p> |
| A Diploma supplement will be issued                  | Yes  |
| Course-specific, integrated German language courses  | Yes  |
| Course-specific, integrated English language courses | Yes  |

## Costs / Funding

|   |  |
|---|--|
| Tuition fees per semester in EUR            | None   |
| Semester contribution                       | A semester fee of approx. 320 EUR is required upon registration/enrolment as a student or doctoral researcher. This fee covers transport by bus, tram, and regional trains within North Rhine-Westphalia for the entire semester as well as the use of student facilities. |
| Costs of living                             | Students or doctoral researchers should calculate monthly expenses amounting to at least 1,000 EUR in order to live in a modest way, including costs for housing, food, health insurance, semester fees, study materials, etc.   |
| Funding opportunities within the university | No   |

## Requirements / Registration

|  |   |
|--|---|
| <b>Academic admission requirements</b> | Bachelor's degree (or equivalent) in Physics is required. A transcript of records in which all courses are listed should be provided together with the application. For admission, it is required that the admission committee determine if the academic qualification of the applicant meets the standards of the Bachelor's programme in physics at Heinrich Heine University Düsseldorf.<br>The GRE General and GRE Physics tests are strongly recommended, especially for applicants from outside the EU. |
| <b>Language requirements</b>           | Proof of sufficient command of English (e.g., TOEFL 80 (Internet-based), IELTS 6.0) must be submitted together with the application. For further details contact: <a href="mailto:admissions.physics@uni-duesseldorf.de">admissions.physics@uni-duesseldorf.de</a>  |
| <b>Application deadline</b>            | German and EU applicants: 15 September for the following winter semester, 15 March for the following summer semester<br>Non-EU applicants: 15 June for the following winter semester, 15 January for the following summer semester<br>Applications are usually processed within six weeks of receipt.   |
| <b>Submit application to</b>           | Heinrich-Heine-Universität Düsseldorf<br>Wissenschaftliche Einrichtung Physik<br>- Zulassung -<br>Prof Dr Axel Görlitz<br>Universitätsstraße 1<br>40225 Düsseldorf<br>Germany   |

## Services

|   |  |
|---|--|
| <b>Possibility of finding part-time employment</b>                | A limited number of campus jobs are available. Students from non-EU countries are permitted to work 240 half days or 120 full days per calendar year without a work permit.  |
| <b>Accommodation</b>  | <p>On-campus student accommodation is available, as is private accommodation near campus. For further information, please check <a href="http://www.stw-d.de">http://www.stw-d.de</a> or send an e-mail to <a href="mailto:info@stw-d.de">info@stw-d.de</a>.<br/>Doctoral students can contact the tutor service of the Junior Scientist &amp; International Researcher Centre (JUNO) for information and support concerning accommodation in Düsseldorf (<a href="http://www.juno.hhu.de/en/tutorservice">www.juno.hhu.de/en/tutorservice</a>).</p> <p>Depending on the type of accommodation, the monthly rent in Düsseldorf usually ranges from around 500 to 600 EUR for a basic apartment or a room in a shared apartment ("Wohngemeinschaft").</p> |
| <b>Support for international students and doctoral candidates</b> | <ul style="list-style-type: none"> <li>• Welcome event</li> <li>• Buddy programme</li> <li>• Cultural and linguistic preparation</li> <li>• Tutors</li> <li>• Accompanying programme</li> <li>• Specialist counselling</li> </ul>  |

# Contact

Heinrich Heine University Düsseldorf  
Department of Physics

Prof Dr Axel Görlitz

Universitätsstraße 1  
40225 Düsseldorf

Tel. +49 2118115190

✉ [axel.goerlitz@hhu.de](mailto:axel.goerlitz@hhu.de)

🌐 Course website: <https://www.physik.hhu.de/en/studium-und-lehre/studiengaenge/msc-physics>

Last update 29.04.2024 19:44:40

# 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.  
German Academic Exchange Service  
Section K23 – Information on Studying in Germany  
Kennedyallee 50  
D-53175 Bonn  
[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