INTERNATIONAL PROGRAMMES

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Master's degree

Cognitive Systems (MSc)

University of Hildesheim • Hildesheim

Overview

Degree	International Master of Science in Cognitive Systems
Teaching language	• English
Languages	English only
Full-time / part-time	• full-time
Programme duration	4 semesters
Beginning	Winter and summer semester
Application deadline	Non-EU applicants: 30 June for the following winter semester EU applicants: 31 August for the following winter semester Non-EU applicants: 15 December for the following summer semester EU applicants: 15 February for the following summer semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The international Master's programme in Cognitive Systems combines key elements from psychology and computer science (especially artificial intelligence and human-computer interaction). It provides participants with a better understanding of cognitive processes and enables them to create systems that provide cognitive capabilities and are able to support humans in their cognitive tasks. The programme combines such topics as machine learning, cognitive psychology, natural language processing, and human-computer interaction.

Course Details

Course organisation	The two-year Master's programme in Cognitive Systems comprises four semesters with a total of

120 CPs (credit points). The study programme is structured into a methodological core (65%), an application area (10%), and a Master's thesis (25%).

Programme structure for the winter intake:

First semester:

- Machine Learning lecture (6 CPs)
- Cognitive Psychology (6 CPs)
- Software Engineering (6 CPS)
- Programming Machine Learning lab course (6 CPs)

and one methodological specialisation module of 6 CPs

Second semester:

- Deep Learning lecture (6 CPs)
- Natural Language Processing lecture (6 CPs)
- Brain and Neural Science lecture (6 CPs)
- Student research project (part I) (6 CPs)

and one methodological specialisation module of 6 CPs

Third semester:

- Human-Computer Interaction lecture (6 CPs)
- Cognitive Systems seminar (3 CPs)
- Student research project (part II) (9 CPs)

and two methodological specialisation modules of 6 CPs

Fourth semester:
The Master's thesis is written during the last semester. (30 CPs)

Programme structure for the summer intake:

First semester:

- Deep Learning lecture (6 CPs)
- Natural Language Processing lecture (6 CPs)
- Brain and Neural Science lecture (6 CPs)
- Human-Computer Interaction lecture (6 CPs)

and one methodological specialisation module of 6 CPs

Second semester:

- Machine Learning lecture (6 CPs)
- Cognitive Psychology (6 CPs)
- Software Engineering (6 CPS)
- Programming Machine Learning lab course (6 CPs)
- Student research project (part I) (6 CPs)

Third semester:

- Cognitive Systems seminar (3 CPs)
- Student research project (part II) (9 CPs)

and three methodological specialisation modules of 6 CPs

Fourth semester:
The Master's thesis is written during the last semester. (30 CPs)

A list of available modules for methodological specialisation and applications can be found at
https://sse.uni-hildesheim.de/en/teaching/cognitive-systems-master/.

A Diploma supplement will be issued	Yes
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	You will pay a contribution to the student council of approx. 420 EUR per semester. This is a contribution to student services, university administration, and the student council. You can use the local public transport in Hildesheim and Lower Saxony free of charge. You will benefit from discounts on meals at the university cafeteria and much more.
Costs of living	You will need around 850 EUR a month to cover your living expenses: • Rent approx. 350–500 EUR • Health insurance approx. 130 EUR • Books and stationery approx. 50 EUR • Meals approx. 200 EUR • Other expenses approx. 100 EUR
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	The University of Hildesheim offers scholarships (such as the College of Minerva and Lore-Auerbach scholarships) supporting especially capable and socially committed students. You can apply once a year in June. Additionally, the International Office offers scholarships that support international students with graduation grants, for example: • University of Hildesheim scholarships • International Office scholarships

Requirements / Registration

Academic admission requirements	Students with a Bachelor's degree in Computer Science, Information Technology, Artificial Intelligence, Psychology, or a related field are eligible to apply. Generally, students with strong analytical and conceptual skills are most suited for this programme. Eligible admissions are prioritised according to the following criteria: • cumulative grade of your Bachelor's degree (53%) • amount and marks of Bachelor's courses related to Cognitive Systems (incl. mathematics and programming, 35%) • prior research activities in Cognitive Systems or related fields (6%) • prior practical activities in Cognitive Systems or related fields (6%)

Language requirements	English language proficiency is required to pursue the Master's programme in Cognitive Systems. Sufficient knowledge of English can be demonstrated by a certificate (TOEFL computer-based test score of 61 or above, IELTS band of 6 or above, or an equivalent certificate) or a German "Abitur".
Application deadline	Non-EU applicants: 30 June for the following winter semester EU applicants: 31 August for the following winter semester Non-EU applicants: 15 December for the following summer semester EU applicants: 15 February for the following summer semester
Submit application to	https://sse.uni-hildesheim.de/en/teaching/cognitive-systems-master/application/ https://www.ismll.uni-hildesheim.de/apply/

Services

Possibility of finding part-time employment	There are many job opportunities for students on campus (in the different departments, the central administration, etc.) and off campus. You can find part-time jobs here: • career service • student and research assistant positions International students are only permitted to work in Germany with a work permit. The student visa allows a maximum of 120 full days (or 240 half days) of work per year. If you earn more than 450 EUR a month, you will be subject to higher health insurance premiums. Make sure your study workload and working hours remain balanced.
Accommodation	Accommodation is available through the Student Services Office or on the private market. Many students live in shared flats. Offers of room vacancies can be found on the notice boards in the university or online on "WG-Börsen" (shared flat marketplaces). The student services for Eastern Lower Saxony (Studentenwerk OstNiedersachsen) also has a room marketplace online.
Career advisory service	The career service is aimed at students and recent graduates of all degree programmes at the University of Hildesheim and in all phases of the transition from study to work. Contact us — we will be happy to support you! During career week, you can take part in workshops specially designed for international students, for example, application workshops or career talks.
Support for international students and doctoral candidates	• Welcome event • Buddy programme

Contact

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Institute of Computer Science

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31141 Hildesheim

Course website: https://sse.uni-hildesheim.de/en/teaching/cognitive-systems-master/

https://www.facebook.com/iohildesheim

https://de.linkedin.com/school/stiftung-universitaet-hildesheim/

https://www.instagram.com/unihildesheim/

https://www.youtube.com/channel/UCGQ1_JA_ZJ-RVfkaxOp0KTw

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International Programmes in Germany - Database

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