



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Language course/short course



Robotics and Innovation for Future Industries | Summer School

RWTH Aachen University • Aachen



Overview

Course location	Aachen
In cooperation with	KUKA AG
Teaching language	<ul style="list-style-type: none">English
Language level of course	<ul style="list-style-type: none">English: B2
Date(s)	<ul style="list-style-type: none">14 July - 3 August 2024 (Registration deadline of course provider: 1 April 2024)
Information on dates, prices and mode of study	<p>FRIENDS & PEERS DISCOUNT: Save 500€! Bring a friend, and you will both receive 15% off of the regular programme fee.</p> <p>EARLY BIRD DEADLINE: Save 335€! 1 MARCH 2024</p> <p>APPLICATION DEADLINE: 1 APRIL 2024</p>
Target group	<p>Become part of our international student community if you are:</p> <ul style="list-style-type: none">at least 18 years oldin a Bachelor's or Master's degree programme, in between these programmes, or recently graduatedproficient in the English language <p>It is an advantage if you are in a degree programme related to our programme.</p> <p>Basic knowledge in the following areas is desirable: Artificial Intelligence (or objective evidence of equivalent knowledge), programming skills (C++ and/or Java) or interest in logic-based programming. Linux skills are beneficial.</p> <p>If you want to learn more about all relevant processes and check our scholarship opportunities, make sure to read through our formalities page.</p>
Description/content	Academic Content

This summer school programme allows an in-depth and interactive insight to topics of future robotics while you learn about engineering, controlling and programming. The lectures introduce fundamental theoretical knowledge in robotics, and they are complemented by lab classes, in which students apply their acquired knowledge in practical projects.

You will solve classical problems in robotics, not only through simulations but also by discussing together how to programme stationary and mobile robots. You will learn about programming, path planning, trajectory planning, mapping and object manipulation, and you will receive information on industrial applications. Classical problems of robotics like localisation and navigation will be solved, and you will achieve an understanding of how to deal with insecurities.

For further information about this programme, [click here](#).

Visit our [website](#) for more courses!

After your arrival on Sunday, we will gather for a welcome orientation. In the following weeks, there will be a lot of social events to support the instruction and the course-related activities. At these events, you can get to know the other participants, our beautiful city of Aachen, and the places in the surrounding area. Then during the last days of your stay, you will take a final exam to earn your certificate.

At the weekends and after the farewell event, you can take advantage of the short travel distances and discover more of Germany and Europe on your own or with your new friends!

Check out our [programme package](#) and [learning environment](#) on our website!

Course details

Recognised language exams offered (e.g. DSH, TestDaF, TOEFL)	No
ECTS points (max.)	4
Average number of hours per week	30
Average number of participants per group/course	25

Costs / Funding

Dates and costs	<ul style="list-style-type: none">14 July - 3 August 2024 (Registration deadline of course provider: 1 April 2024), costs: EUR 3,350
This price includes	<ul style="list-style-type: none">Course feesAccommodationAccompanying programme
Information on dates, prices and mode of study	<p>FRIENDS & PEERS DISCOUNT: Save 500€! Bring a friend, and you will both receive 15% off of the regular programme fee.</p> <p>EARLY BIRD DEADLINE: Save 335€!</p>

1 MARCH 2024

APPLICATION DEADLINE: 1 APRIL 2024

Requirements / Registration

Teaching language	<ul style="list-style-type: none">English
Language level of course	<ul style="list-style-type: none">English: B2
Language requirements	We don't require an English language proficiency test.
Submit application to	<p>Apply for this summer school programme via our online application form. For detailed information, please visit the programme website.</p> <p>The "Short Courses Team" wishes you good luck!</p>

Services

Is accommodation organised?	Accommodation is arranged by the organiser.
Type of accommodation	<p>For the duration of the summer school, you will be staying at a student accommodation on campus. Housing is included in the programme fees.</p> <p>All accommodations are located close to the city centre and allow an easy and convenient transportation within Aachen as well as to neighbouring cities. Since all participants of each individual programme will be staying at the same accommodation, you will get to know your classmates better by living in an environment that is similar to the dorms offered by the university.</p> <p>More information can be found here.</p>
Meals	<p>Breakfast and lunch as well as snacks during selected events are included in the programme fees. For more details, please read the information below.</p> <p>Breakfast From Monday to Friday, breakfast is included in the programme fees.</p> <p>Lunch We will provide lunch from Monday to Friday at the RWTH student restaurant. A student restaurant card will be provided on your first day.</p> <p>Dinner and meals at the weekends Participants have to provide their own meals at the weekends and in the evenings on weekdays. A personal budget for individual needs is advised.</p>
Is a social and leisure	Yes

programme offered?

Description of social and leisure programme

Supporting Programme – How we make our courses special

Through the right balance of academic and social programmes, you will spend an unforgettable time with other students from all over the world.

Academic Programme – Insights into German industry

Get the opportunity to build a network and make a sustainable investment in your future.

- Institute, lab & company visits
- Expert talks with professors & industry partners
- Networking with German companies

Social Programme – Cultural and fun activities

We organise a wide range of social events to help you experience German culture and student life at RWTH Aachen University.

- Ice breakers & intercultural training
- Sports day & karaoke night
- Barbecue or dinner night
- Get-togethers with local mentors
- Welcome & farewell events

Travelling in Germany & Europe

Aachen is centrally located in Germany and a few kilometres away from the borders of Belgium and the Netherlands. Some trips are included:

- City rally in Aachen
- Hiking tour to the border tripoint
- City excursions: Maastricht, Cologne, Bonn

Check out our [supporting programme!](#)

Free internet access

Yes

Support in visa matters

No

Pick-up service from train station/airport

No

Our Partners

KUKA



Summer Schools in Germany

Summer Schools in Germany at RWTH International Academy
Experience international academic content, boost your career and have fun at the same time!

» more:
<https://www.youtube.com/watch?v=AW2iJr0Mk2E>



©RWTH International Academy

Akira Techapattaraporn Summer School

Participating in RWTH International Academy's Summer School was a fantastic experience. I got to explore Europe while diving deep into robotics. It was an absolute blast, and I'm grateful for the memories and skills that I gained.

RWTH Aachen University



RWTH Aachen University

© Peter Winandy

With 260 institutes, nine faculties and three Clusters of Excellence, RWTH Aachen University is one of Europe's leading institutions for science and research. Currently, more than 47,000 students are enrolled in 173 courses of study. Of these students, more than 14,000 are international students. RWTH Aachen is well-known for its state-of-the-art education that tackles some of the world's most pressing global challenges. Our graduates are highly sought after by businesses and industry as trainees and for executive positions.

As the official academy for education of RWTH Aachen University, RWTH International Academy is tasked with promoting and developing the integration of professional and academic education. Our goal is to make knowledge accessible to international participants through application-oriented educational formats and programmes, thus making a lasting contribution to lifelong learning.

[More about RWTH International Academy](#)

Excellent Learning Environment at RWTH Aachen University

We offer a variety of lectures, tutorials, case studies, and a range of other learning activities in which students will be active participants in the discovery and application of knowledge. The participants of our courses come from over 55 different countries – this allows us to create an enriching global classroom environment for everyone.

Advantages of RWTH Aachen University:

- Seminar rooms with modern equipment
- Daily contact with our team allowing for direct support
- Case studies and guest speakers
- Highly professional and motivating atmosphere





University location

The student city of Aachen is a vibrant and historic place located at the border tripoint of Germany, Belgium, and the Netherlands. Aachen was a favoured residence of Charlemagne. After the departure of the Romans from this region, Charlemagne finally managed to forge the lion's share of Europe into something that resembled an administrative unity, with Aachen as the beating heart of the empire. The "Rathaus" (city hall) and "Dom" (cathedral) bear witness to this earliest Carolingian building history. During your time in Aachen, you have the opportunity to discover the city, its history, and its most important sights. Moreover, you will experience student life at one of Europe's leading technical universities and become part of the international student community. There is no better place to encounter European culture while challenging yourself in our programmes.

Contact


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International Academy

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52074 Aachen

 ShortCourses@academy.rwth-aachen.de
 Course website: <https://bit.ly/3B4ytFK>

 <https://www.facebook.com/rwthshortcourses>

 <https://www.linkedin.com/company/rwth-international-academy/>

 <https://www.instagram.com/rwthshortcourses/>

 <https://www.youtube.com/shorts/DLCaa7Acbug>

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International Programmes in Germany - Database

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

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Disclaimer

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