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# Language course/short course



## Robotics for Future Industrial Applications Summer School

RWTH Aachen University • Aachen



## Overview

Course location	Aachen
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Language level of course	<ul style="list-style-type: none"><li>English: B2</li></ul>
Dates	<ul style="list-style-type: none"><li>August 2020 (Registration Deadline May 01, 2020)</li></ul>
Target group	<p>You are a BSc/BE student enrolled at a renowned university, have profound knowledge of the English language and are studying mechanical engineering or a related field.</p> <p>Ideally, you should have taken classes that address the following areas and thus already have basic knowledge in the following areas: lecture "Artificial Intelligence" (or objective evidence of equivalent knowledge), programming skills (C++ and/or Java), interest in logic-based programming. Linux skills are beneficial.</p> <p>The minimum age to participate is 18. Students should have completed the first year of their studies.</p>
Description/content	<p><b>Academic Content</b></p> <p>In this Summer School, students receive an introduction to the engineering, controlling and programming of robots. The course conveys necessary theoretical knowledge in robotics, followed by lab courses where students can apply the gained knowledge in hands-on practical projects. The programme offers an overview of the application of intelligent, robust robots as part of future smart factories. The lecture comprises three segments covering the central topics of communication between heterogeneous systems, adaptive industrial robotics, and autonomous mobile robotics for in-factory logistics.</p> <p><b>Academic Staff</b></p> <p>The lectures are conducted by the Cybernetics Lab, which is part of the Faculty of Mechanical Engineering of RWTH. Its research focuses on cybernetic research methods in information and knowledge management. The Cybernetics Lab is supported by the Knowledge-Based Systems Group, which is concerned with knowledge representation, artificial intelligence, and cognitive robotics.</p>

Average number of hours 30

per week

Average number of participants per group/course 25

## Costs / Funding

Dates and costs

- August 2020 (Registration Deadline May 01, 2020), costs: EUR 2,990

This price includes

- Course fees
- Accommodation
- Accompanying programme

Further information on dates and prices. The course fees amount to **2,990 EUR** for the **three-week** summer school programme. The course fees include all lectures, laboratory courses and excursions, social events, accommodation, breakfast, lunch, all meals during social events, and a public transport ticket for the duration of the course. Early Bird Discount: complete your application by 1 March to get a 10% discount on the total fees - in case of admission!

## Requirements / Registration

Teaching language

- English

Language level of course

- English: B2

Language requirements An English language proficiency test is recommended. Since the programme is taught in English, you need to have sufficient academic English language skills to be able to follow the course.

Submit application to Applications for the Summer School programmes are possible via our [online application](#) form on our [website](#).

## Services

Is accommodation organised? Accommodation is arranged by the organiser.

Type of accommodation Participants will stay at one of Aachen's hostels, where breakfast will be provided. The rooms accommodate two to four people.

The accommodation is centrally located in the heart of the city and is well served by the city's public transport system.  
Students will receive a public transport ticket for the duration of the Summer School for convenient travel within the Aachen city region.

**Meals** Breakfast and lunch on workdays are included.

**Is a social and leisure programme offered?** Yes

**Description of social and leisure programme** Social Events - Have Fun While Studying!  
While following an intensive academic programme, participants will experience German culture first hand through an extensive leisure programme, e.g.:

- Intercultural training
- Visits to important sights in and around Aachen
- Excursions to nearby cities such as Maastricht or Cologne
- Sporting events
- Barbecues, karaoke and other get-togethers

... and a lot more - enjoy your stay!

**Free internet access** Yes

**Support in visa matters** Yes

**Pick-up service from train station/airport** Yes

## Our Partners



Zhao

China

RWTH International Academy

### Zhao from China Summer School

„The experience of participating in RWTH Aachen Summer School programme was something I will remember for years. Every detail of the programme was carefully organised by the Summer School team. All the activities have left me with nothing but great memories. The education in Germany is considered to be excellent, and RWTH Aachen University is my favourite university in Germany.

This summer school was simply awesome!  
It was my best summer...ever!“



### RWTH Summer School Robotics for Future Industrial Applications

The lectures introduce fundamental theoretical knowledge in robotics and are complemented by lab classes, in which students apply their acquired knowledge in practical projects.

» more:

<https://www.youtube.com/watch?v=MQkP52GTZIU&t>

# RWTH Aachen University



With 260 institutes in nine faculties, RWTH Aachen University is one of Europe's leading institutions for science and research. Currently, around 45,000 students are enrolled in over 100 academic programmes. More than 10,000 of them are international students. The scientific education students receive at RWTH Aachen University is firmly rooted in real-world applications. Our graduates are highly sought after by businesses as trainees and for executive positions.

## University Location


Aachen, Germany's westernmost city, is located on the borders with Belgium and the Netherlands. Its population is about 240,000. Aachen's historic centre around the distinctive cathedral (UNESCO world heritage site) is characterised by a student lifestyle. On the city's doorsteps, the hilly Eifel landscape with its rivers, lakes and forests offers a picturesque countryside for outdoor recreation. Aachen benefits greatly from its central location: in the heart of Europe!

## Contact

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RWTH International Academy

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 Course website: <http://bit.ly/2Ny0yKf>

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

 [https://twitter.com/RWTH\\_Academy?lang=en](https://twitter.com/RWTH_Academy?lang=en)

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

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# 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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## 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".

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