



## Content of this brochure

Find out why a Short Course is a wonderful way to develop your skills. Choose between a variety of relevant topics and enjoy a full supporting program. Whether on campus or online - with our contents, social events and industry connections you profit from a great experience.

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# Short Courses at RWTH International Academy Aachen

## Summer & Winter Schools | Online Courses

# About RWTH Short Courses

## Broaden your horizon and boost your career

Short Courses enrich your knowledge, enhance your Curriculum Vitae and entail a great experience. The different programs take place over a short period of time, so you can complete them easily during your Bachelor's degree or before starting your Master's degree.

In our Short Courses you develop practical ideas together with renowned professors, get to know German industry & institutions and expand your skills with hands-on case studies. We offer you a wide range of social events to experience an unforgettable time, full of cultural and fun activities – even in our Online Courses.

### Summer & Winter Schools

**Spend an unforgettable time abroad in Germany at RWTH Aachen University**

Get on an airplane, find your way to our campus and feel welcome: In our presential Summer and Winter Schools, you benefit from a comfortable stay, that we entirely organize for you. This includes your accommodation, two meals per weekday, topic-related excursions and fun-only city trips. Plus, you receive the personal support from local mentors who regularly study at RWTH Aachen University. This way, you don't only hear about Aachen's speciality: bar cookies called „Printen“. No, you can meet up, visit a café and taste them. Become part of a global community and meet friends from all over the world!



\*find this sign to mark all additional benefits of our on-campus programs



### Online Courses

**Expand your skills from home and have fun at the same time**

You only have a limited time frame to broaden your horizon and cannot travel? No problem - our interactive Online Courses give you the freedom to study a special topic, make connections to German industry and virtually meet new friends. We unite a few hours of live teaching, discussions and group experiences with the flexibility to go through further materials whenever you like. On our online learning platform, you find pre-recorded lectures and reading materials, quizzes and forums. Plus, we invite company experts to present their daily work with your Short Course topic. You also want to learn more about Germany and Aachen? Easy: Just join our online social events and have intercultural meet-ups with your mentors.



## Important Quick Facts



**Teaching: On campus, online or blended**



**Duration: 2-4 weeks**



**Workload: 50-120 Teaching Hours**



**Credit Points: 2-5 ECTS**



**Qualification: RWTH Aachen University Certificate**



**Language: English**

## Contact Information



**RWTH International Academy Aachen, Germany**

Short Courses Team



# Program Package

## Benefit from three program pillars

### All Short Courses: Online and on Campus

#### Professional Insights

Related to your specific course topic, you will have the opportunity to establish contacts with companies' speakers and visit laboratories, production lines, and institutes.

- ▶ Company Visits
- ▶ Institute & Lab Tours
- ▶ Expert Talks
- ▶ Networking

#### Interactive Classes

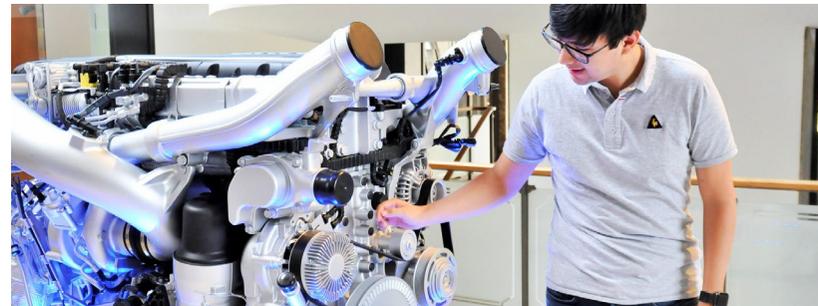
Our learning platform is filled with slides, videos, texts, and quizzes for you to track your advancements - whether you join or course online or on campus. With our practical approach, you can apply the acquired theory in projects with your group.

- ▶ Lectures
- ▶ Case Studies
- ▶ Exercises
- ▶ Experiments

#### Social and Cultural Activities

Apart from your academic part, you will experience the historic city of Aachen and its surrounding area in the heart of Europe together with other students your age.

- ▶ Social Events
- ▶ City Tours
- ▶ Mentoring Program
- ▶ Student Life in Aachen



#### On Campus

#### Comfortable Stay

While all the other aspects count for Online Courses as well as for programs on campus, there is something on top when you travel to Germany: a package for your comfortable stay.

- ▶ Accommodation
- ▶ Two meals per day on weekdays
- ▶ Local transportation ticket
- ▶ Emergency contact on site
- ▶ Help with visa and insurance
- ▶ Travel tips and full-time support

# Why is a Short Course a great option?

## Qualify yourself for your further career

Taking a Short Course is the perfect way to expand both your academic knowledge and your professional skills, and learn more about different cultures and industries at the same time. Since they also bring along incredible travel experiences, Short Courses are becoming increasingly popular among international students who want to get hands-on training in less time than it takes to complete a full degree program.

### Your benefits of participating in RWTH Short Courses

- ▶ Gain valuable skills and deepen your knowledge in a specific field of your choice
- ▶ Learn from top academics and professionals
- ▶ Join interactive lectures, exercises, Q&As and discussions
- ▶ Experience the excellent educational environment of RWTH Aachen University
- ▶ Learn through a practical exploration of your favorite topics with case studies, lab work and experiments
- ▶ Be awarded with a valuable RWTH certificate for your CV
- ▶ Stand out in the global job market



This Summer School is the best thing that ever happened to me. It's like utilising the summer break with both studies and exploring. The content of the course is really above the bar. I learnt a lot of new topics, which are definitely going to help me embrace my envisioned career. The way it has been designed with intensive classes, excursions to different places and intercultural events, makes this a perfect course for learning while having fun.



Mohd Kashif Ansari, India  
Short Course 2022

### Experience an unforgettable time

Enjoy a fun supporting program and engage in intercultural exchange - even online: Meet like-minded people from all over the world and get inspired by their different cultures. Our diverse peer activities provide unique insights into the way of living in Germany. On-campus programs top this package with travel opportunities in Europe.

### Mentoring Program

All courses have their own mentors, who will help our participants to get to know Aachen from a true student's perspective. Your buddies, who are typically students enrolled at RWTH Aachen University, are part of our social events and guide you through the academic and cultural practices in Germany.



# Studying at RWTH Aachen University

## One of Europe's leading science and research institutions

RWTH Aachen University is one of the Germany's elite universities and one of the most highly recognized technical universities in Europe. It is a place where the future of our industrialized world is thought out: the university is proving to be a hotspot with increasing international recognition where innovative answers to global challenges are developed.

### Why should you choose RWTH Aachen University?

- ▶ Top-ranked university in science and technology
- ▶ An extensive academic program from various RWTH institutes awaits you
- ▶ Together with renowned professors you develop practical solutions
- ▶ With hands-on case studies and real-life examples you expand your hard skills
- ▶ During company visits you gain insights into German industry and organizations
- ▶ RWTH lecturers and experts connect you with future workplaces
- ▶ Member of IDEA League and TU9
- ▶ More than 15 years of experience with Short Courses



This three weeks in Aachen are unforgettable experience in my lifetime. The students are coming from all over the world, and the exciting social events helped me get along with them. We motivated each other for deeper expertise in Aachen or other universities. I want to visit this lovely city again in the future.



Masaya Ikeda, Japan  
Short Course 2022

### Aachen - History meets technology in the heart of Europe

Aachen is a medium-sized city with a rich history dating back to Roman times. Aachen's historic center around the distinctive cathedral, a UNESCO world heritage site, is characterized by its international student life. In the old town center, with its pubs, restaurants and shops, one can literally touch European history. The great number of students makes student life in Aachen a vibrant and unique experience.

In addition to this, Aachen and its region is a high-tech location and platform for innovative exchange of ideas and know-how. A great transfer between science and industry creates an international business place for renowned companies and future-oriented startups.





# What makes RWTH courses special?

## Benefit from a broad supporting program

During all our Short Courses you do not only expand your academic knowledge, but also benefit from our broad supporting program! Get in touch with excellent science and research through our institute, lab and company visits. Expand your network with international students, professors and industry partners, be part of a global community and meet friends from all over the world.

### Insights into German Industry

Through our academic excursions, your path to academic and career success is deepened. We offer you insights into German industry and the opportunity to build a network with which you can make a sustainable investment in your future.

- ▶ Institute, lab and company visits
- ▶ Expert talks with professors and industry partners
- ▶ Networking with German companies and organizations

### Social Events and Activities

Get ready for an unforgettable time, full of cultural and fun activities! We organize a wide range of social events to help you experience German culture and student life at RWTH Aachen University. Make the most of your freetime, meet the other participants who come from all over the world and spend time with our local team in a great atmosphere and create amazing memories.

- ▶ Ice-breaking, intercultural training and team-building
- ▶ Sports or stretching and karaoke or game night
- ▶ Outdoor barbeque, dinner night or intercultural meet-up
- ▶ Honoring events: welcome and certificate ceremony

### Traveling Germany and Europe

Only a few kilometers from the city center, one can find the “Border Tripoint” where the frontiers of Belgium, Netherlands and Germany meet. The attraction of living in this area includes a colourful mix of languages and people as well as short travel distances to cities such as Amsterdam, Brussels, Cologne or even Paris.

[▶ read more](#)

- ▶ City rally to explore Aachen
- ▶ Hiking tour to the Border Tripoint
- ▶ Trips to Maastricht, Cologne or Bonn



# What's included when you come here?

## Enjoy a comfortable stay in Aachen

It is a brave decision to study abroad in a foreign country. We understand the challenges upon arrival and therefore provide our participants a fully organized stay in the charming historic city of Aachen. You don't have to worry about finding a well-located room since we organize your accommodation, local transportation and catering in advance. All you need to take care of is your flight, insurance and visa. We are happy to support you regarding these topics via email.

### The fees of each program contain:

- ▶ Accommodation (in a hostel or student dorm)
- ▶ Breakfast and lunch on weekdays
- ▶ A local transportation ticket
- ▶ Broad supporting program
- ▶ Personal help by local mentors
- ▶ Emergency contact
- ▶ Certificate from RWTH Aachen University



This time in Aachen was plainly incredible! The lectures were very interesting, professors were knowledgeable and gave us many interesting insights of the studied technologies and their practical uses. The laboratories we visited were astonishing, really. Events were very thought trough and helped us connect among students and our mentors.



Rodrigo Alonso Albertos, Spain  
Short Course 2022

### Details: Housing, Catering & Transportation

For the duration of your Summer or Winter School you will be staying at one of Aachen's boarding houses or in a student accommodation (usually 2-,3-or 4-bed rooms). From Monday to Friday, breakfast is included in the program fees and we provide lunch at the RWTH student restaurant. A student restaurant card will be handed out to you on the first day.

All students receive a public transportation ticket on their arrival day. This allows you to easily travel to and from your lectures. With this ticket you can explore the city of Aachen by bus and even visit the neighboring city Vaals in the Netherlands.

[> read more](#)

# How to become a participant

## We support you each step of the way

The registration period for our Short Courses regularly starts in autumn. Remember to sign up well in advance to benefit from our Early Bird discount and allow enough time for the admission procedures, travel preparations and getting to know our digital learning tools. We are looking forward to hearing from you!

### Where to sign up for our Short Courses

The registration process for our courses is very easy! Simply visit our website and select the program you want to sign up for. Don't worry, you have the chance to apply for multiple programs at the same time. The „Sign up“ button takes you to a form where you can enter your data and upload all necessary documents.

### Documents to prepare

Please submit the following documents in English:

- ▶ Your Cover Letter
- ▶ Your Curriculum Vitae (Resume)
- ▶ Your academic records (Transcript of Records)
- ▶ A color photo of yourself



#### Final application deadline:

On-campus summer programs: April 1/May 1  
On-campus winter programs: November 1  
Online programs: 8-10 weeks prior to start

### Check out the requirements to participate

Every year we welcome students from all over the world. You can become part of our international student community if you are:

- ▶ at least 18 years old
- ▶ in your Bachelor's, Master's, in between or recently graduated
- ▶ proficient in the English language

It is beneficial if your study degree is related to your selected program.

Please find course-specific requirements on the program pages.

[▶ read more](#)



# Our funding options for your success

## Early Bird Discount & Scholarship Opportunities

We believe that high-quality education and making intercultural experiences should be available to everybody, regardless of their financial situation. So we are glad to announce that we award scholarships for selected on-campus Summer & Winter Schools every year. Our different scholarship and discounts with reduced program fees increase the chance for students to attend our Short Courses, independent of their background.



Deadlines:  
March 1 /  
October 1

### Early Bird - get 10% off!

If you complete your registration by the deadline, you benefit from our 10% Early Bird discount.



### Friends & Peers - get 15% off!

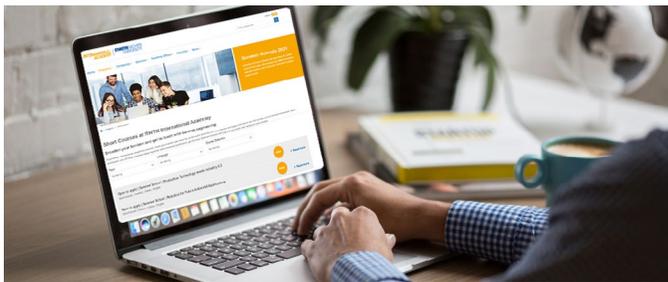
Participate together with a friend in an on-campus program and you both receive a 15% discount.

### How to become a scholarship holder

- ▶ Meet the requirements described in the respective announcement
- ▶ Have outstanding grades and references
- ▶ Stand out with extracurricular activities and achievements
- ▶ Have fun studying and supporting us as an ambassador
- ▶ Include a letter of recommendation in your application
- ▶ Highlight your motivation and goals

### Exemplary scholarship opportunities from the last years

- ▶ DAAD Scholarship 2019: 100% discount + flight reimbursement for selected students from designated countries.
- ▶ T.I.M.E. Scholarship 2022: 100% discount for one student from a T.I.M.E. partner university who is willing to take a double degree at RWTH Aachen University afterwards.
- ▶ Country Scholarship 2022: 33% discount for selected students from Australia, Brazil, Canada, Colombia, Egypt, Indonesia, South Korea, Malaysia or Turkey.



Stay updated not to miss your scholarship opportunity!  
Find the programs with scholarship options on our [website](#).



# Key Topics of our Short Courses

## Exclusive teaching by RWTH professors and researchers

Every year we work on our portfolio to offer you the most interesting and innovative topics in our Short Courses. All programs are related to current research questions and global challenges that are explored at RWTH Aachen University.



### Automotive Engineering

Being famous as the „country of cars“, Germany has a lot to offer for those who are interested in automotive engineering and mobility studies. RWTH has various institutes with research focus on classical engines as well as alternative vehicle propulsion systems, car design and automated driving.

Dive into the current challenges in the automotive sector and experience Germany's passion for cars in one of our Short Courses!



### Automation & Robotics

Bringing classical mechanical engineering topics to the next level, RWTH offers various insights into automation systems, control systems, information technology and industrial machinery.

Get to know the different fields of robotics and explore them either from the simulation perspective or with hand-on experiments.



### Industry 4.0 & Sustainability

Germany is the world's leading Industry 4.0 nation. Become part of the digital transformation and immerse yourself in supply chains where artificial intelligence, virtual and augmented reality, and other smart solutions come into practice.

Not to forget the humans in this 4th industrial revolution RWTH also explains human-machine-interaction, security and sustainability aspects.



### Engineering & Management

Nowadays, the most successful engineers are those with management knowledge. Become more interdisciplinary with our Short Courses, and acquire knowledge in supply chain management, logistics or agile innovation.

Like that you not also broaden your horizon, but you also get to work with students from diverse educational backgrounds - like in the real world of work.

More info about the current programs on our [website](#)

# RWTH International Academy

## Further education of RWTH Aachen University

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As the official academy for further education of RWTH Aachen University, RWTH International Academy is tasked with promoting and developing the integration of professional and academic education. The goal hereby is to make knowledge accessible to further target groups through application-oriented educational formats and programmes. Therefore, the aim is to make a lasting contribution to lifelong learning.

### History of the Short Courses at RWTH International Academy

RWTH International Academy has conducted international Summer Schools since 2007 with the aim to give international students insights into learning and teaching at RWTH Aachen University. In 2019, the Short Courses Team has welcomed around 500 students in 20 different Summer and Winter School programs in Aachen. The first Online Courses were successfully conducted in 2020/2021 and since then established as a fixed component in the program portfolio.

### More Short Course Opportunities

Besides the open programs for international students, we also offer individually planned and organized programs for closed groups of students from our partner universities. For those groups who seek a longer stay abroad, we design „Mini-Mesters“, which combine academic content of several different topics as well as a longer project work at an institute of RWTH Aachen University. In case of questions or inquiries, feel free to contact us!



**RWTH International Academy Aachen, Germany**

Short Courses Team

