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Smart Electrical Power Systems Summer School • RWTH Aachen University • Aachen ................................................. 2

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Overview

Course location
Aachen

Teaching language
- English

Language level of course
- English: B2

Date(s)
- June 29 - July 10, 2020 (Registration deadline of course provider: April 01, 2020)

Target group
You are a BSc/BE student enrolled at a renowned university, have profound knowledge of the English language and are studying mechanical engineering, electrical engineering or a related field. A basic understanding of power generation and power systems, electrochemical systems and basic understanding of electricity system and its components will be expected.

The minimum age to participate is 18. Students should have completed the first year of their studies.

Description/content
For further information about this programme, click here: http://bit.ly/2NzTkFt

Academic Content

This summer school is centred around the scientific question as to whether a high penetration of distributed generation such as rooftop solar installations or wind power would make an electrical distribution system unreliable or unstable. To reap the full potential of renewable, environment-friendly solar and wind power and to reduce investments in wide-area grids and transportation losses, we need to better balance supply and demand at the local or regional level. This is the goal of smart power grids and virtual power plants.

Students receive an overview of current challenges and new technologies with regards to the future electric grid. Topics include but are not limited to the distribution and transfer of direct current measurement and monitoring methods in modern power systems, integration of new technologies in new power systems, and the modernisation of power systems as well as energy storage systems.

Academic Staff

The E.ON Energy Research Center of RWTH Aachen University is the leading institution of this summer school and responsible for the overall direction of the academic content. The E.ON ERC is supported by an expert of the BatterieIngenieure GmbH and the Institute of Power Systems and Power Economics.


## Costs / Funding

### Dates and costs
- June 29 - July 10, 2020 (Registration deadline of course provider: April 01, 2020), **costs: EUR 1,990**

### This price includes
- Course fees
- Accommodation
- Accompanying programme

### Further information on dates and prices
The course fees amount to **1,990 EUR** for the **two-week** summer school programme.

**All-inclusive package:**
- lectures
- accommodation
- excursions and social events
- catering
- public transportation ticket

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

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Is accommodation organised?</strong></td>
<td>Accommodation is arranged by the organiser.</td>
</tr>
<tr>
<td><strong>Type of accommodation</strong></td>
<td>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.</td>
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<tr>
<td><strong>Meals</strong></td>
<td>Breakfast and lunch on workdays are included.</td>
</tr>
<tr>
<td><strong>Is a social and leisure programme offered?</strong></td>
<td>Yes</td>
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</tbody>
</table>
| **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

RWTH International Academy

Wen Hui from Malaysia
Summer School

“This two-week Summer School was well spent. I gained new insight into the technologies of the Smart Electrical Power System showcased by Germany and learned about energy security, efficiency and sustainability issues. I like how the programme is designed and arranged, with lectures coupled with laboratories and factory visits as well as some sports and bonding activities for the participants and the Summer School team. I would definitely recommend this Summer School.”

RWTH Engineering
Summer and Winter Schools

RWTH Engineering Summer and Winter Schools

more:
https://www.youtube.com/watch?v=zeHndc-9k0k

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
Campus-Boulevard 30
52074 Aachen

SummerSchool@academy.rwth-aachen.de
Course website: http://bit.ly/2NzTkFt

https://www.facebook.com/RWTHSummerSchool/
https://twitter.com/RWTH_Academy?lang=en
https://www.instagram.com/rwthsummerschool/

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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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