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

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## Overview

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<td>English</td>
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<td>Language level of course</td>
<td>English: B2</td>
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<tr>
<td>Date(s)</td>
<td>June 29 - July 10, 2020 (Registration deadline of course provider: April 01, 2020)</td>
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### 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](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](#).
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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

RWTH Aachen University
RWTH International Academy

Campus-Boulevard 30
52074 Aachen

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

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