Hessen International Summer University (ISU)

The Hessen:ISU Darmstadt is organised by Hochschule Darmstadt, one of the biggest Universities of Applied Sciences in Germany and funded by the Hessen Ministry of Higher Education, Research and the Arts. During this 4-week intensive English programme, scientific knowledge will be enhanced by practical learning with hands-on experiences. The offered module provides students with the opportunity to extend their network and establish valuable contacts for their future career.

Academic Module: German Energiewende – Impact on Buildings and Their Occupants

- Smart Living in the house of the future (improvement of living comfort by building automation, how building automation can influence efficiency among the supply/consumer chain, interaction of house, car and smart grid and its impact on efficiency, opportunities for the increase of safety with building automation)
- Influence of renewable energies on the power system (energy supply, distribution and consumption)
- Options of renewable power generation for family houses (geothermal energy, wind energy, solar energy and water power)
- Climate communication – impact of ‘Energiewende’ on individual behaviour
- E-mobility and its interaction with the house (battery systems, interaction of car, house and additional storage systems)
- Academic excursion to a ski resort in the Alps: how does a ski resort deal with climate change, its impact and how it makes use of renewable energies

The programme includes

- Academic seminars, project work and lectures
- Hands-on experiences in labs, during field trips and company visits
- Sightseeing and other cultural activities
- An international and intercultural classroom
- Instruction by (international) professors and practitioners, engineers and experts in the field
- German language classes for beginners and advanced learners
- 9 ECTS-credits in total

Why Darmstadt?

Darmstadt, also known as the “City of Science,” is home to several scientific institutions, universities and high-technology companies. The city is rich of old art nouveau establishments, such as Mathildenhoehe. Darmstadt is located in the vibrant metropolitan Rhine-Main area, right next to Europe’s financial centre Frankfurt/Main and within easy reach of many major European cities.
Programme fee

Tuition waiver available for students from partner universities. Please contact the programme coordinator for more details.

**Early-bird-fee**: 1.790 € for applications received before April 1, 2018

**Regular fee**: 1.990 € for applications received after April 1, 2018

**Application deadline**: June 1, 2018

**The programme fee includes:**

- Accommodation
- Tuition and course related activities
- Lecture material for all seminars
- Cultural and leisure activities
- Public transportation within Darmstadt
- Health, accident, and liability insurance

**Hessen:ISU Darmstadt Team**

**Academic Director**
Prof. Dr. Ingo Jeromin
Department of Electrical Engineering and Information Technology

**Programme Coordinator and Contact:**
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For more information, please visit our website:
https://isu.h-da.de/

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International Summer University 2018

German Energiewende – Impact on Buildings and their Inhabitants

**July 15 – August 11, 2018**