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# Language course/short course



**Energy & Climate**

University of Bayreuth • Bayreuth

## Overview

Course location	Bayreuth
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, C1</li></ul>
Date(s)	<ul style="list-style-type: none"><li>July 03 - July 14, 2023 (Registration deadline of course provider: April 30, 2023)</li></ul>
Target group	Advanced undergraduate and graduate students, PhD students
Description/content	<p>The oil crises of the 1970s provoked debates about the finite limits of energy resources and triggered increases in energy efficiency and innovations in the production of alternative fuels / renewable energy technologies. There is an effort to produce more low-carbon energy technologies. In many cases, the new developments in low-carbon energy technologies are decentralised due to their positive socio-economic and ecological impacts.</p> <p>Yet despite these developments, the following decades saw rather energy consumption increase dramatically – first in the Global North and later in the Global South. For all that, electric power is still scarce and electricity supply is unreliable in many developing countries such as India, Indonesia and most African states, particularly in territorially remote locations.</p> <p>If these countries increase their use of fossil fuels to meet the rising energy demands of their growing populations, while established major emitters fail to reduce their emissions dramatically, atmospheric concentrations of greenhouse gases will lead to unmanageable global warming.</p> <p>Since 1992, the international community has negotiated successive agreements that aim to considerably reduce greenhouse gas emissions to net zero levels in the second part of this century.</p> <p>These agreements assume an intensifying effort to replace fossil fuels (or reduce their consumption) by using renewable energy sources and drive significant improvements in the energy efficiency of industries, transport and cities. However, the need for rapid emission reductions goes well beyond what a transition to non-carbon-based fuels can provide – raising questions about geo-engineering and other potential technologies and their impacts.</p> <p>The need for rapid emissions cuts, alongside growing global demand for (renewable) energy, raise critical questions about the technological potential and socio-economic and political implications of various technologies and approaches.</p> <p>Driven also by the political demands, scientists at universities and research institutes as well as in the industrial sector are working on novel energy conversion and storage systems, around the world. This is urgently required for a secure and affordable supply of environmentally-friendly energy. As future energy systems will be diverse, a broad knowledge of different conversion and storage applications is needed. Therefore, we will cover fundamental knowledge and specific case studies as well as possible solutions for novel energy systems from an engineering point of view. The development of flexible decentralised smart energy systems and the hybridisation of</p>

renewable energy systems will be presented during this summer school course. These topics are widely discussed in the energy strategic planning on European and international level in order to end up with efficient systems with a minimal environmental impact and reduced CO2 footprints.

For more detailed information on the course content and lecturers, please visit our [website](#).

## Course details

Recognised language exams offered (e.g. DSH, TestDaF, TOEFL)	No
Average number of hours per week	30
Average number of participants per group/course	20

## Costs / Funding

Dates and costs	<ul style="list-style-type: none"><li>July 03 - July 14, 2023 (Registration deadline of course provider: April 30, 2023)</li></ul>
Price only on request	Yes

## Requirements / Registration

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, C1</li></ul>
Language requirements	A very good command of the English language (preferably level B2) is a requirement for your participation in the course. Please provide proof of your language level by submitting a language certificate (e.g., TOEFL, IELTS, Cambridge) with your application.
Submit application to	Please submit your application and supporting documents (CV, motivation letter, enrolment certificate and proof of language proficiency) via our website: <a href="http://www.summerschool.uni-bayreuth.de/">http://www.summerschool.uni-bayreuth.de/</a> Please contact us by <a href="#">e-mail</a> if you have any questions regarding the application procedure.

# Services

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**Is accommodation organised?** The organiser helps participants look for accommodation.

**Meals** Included in the programme fee:

- Lunch on course days (Monday to Friday)
- Welcome and farewell dinners

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

**Description of social and leisure programme** **Examples of our events and social programme:**

- Welcome & farewell dinner
- Sports day
- City tour through Bayreuth
- Get-togethers
- Game night
- Excursion at the weekend

**Free internet access** Yes

**Support in visa matters** Yes

**Pick-up service from train station/airport** No

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## Contact

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🌐 Course website: [https://www.summerschool.uni-bayreuth.de/en/courses/Energy\\_Climate/index.html](https://www.summerschool.uni-bayreuth.de/en/courses/Energy_Climate/index.html)

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Last update 07.12.2022 14:52:57

# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
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## Editor

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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".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry  
of Education  
and Research