



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Language course/short course	2
Sustainable Development: The Water-Energy-Food Nexus • RWTH Aachen University • Aachen	2

Language course/short course



Sustainable Development: The Water-Energy-Food Nexus

RWTH Aachen University • Aachen

Overview

Course location	Aachen
Teaching language	<ul style="list-style-type: none">English
Language level of course	<ul style="list-style-type: none">English: B1, B2
Date(s)	The course date is not fixed (participation is possible at any time)
Course duration	4 weeks - 2 months
Mode of study	Fully online
Phase(s) of attendance in Germany (applies to the entire course)	None
Pace of course	Instructor-led (Specific due dates for lectures/assignments/exams)
Information on dates, prices and mode of study	<p>The "Verified Track" course price (47 EUR) includes unlimited access to course materials, world-class institutions and universities, edX support, a shareable certificate upon completion and graded assignments and exams.</p> <p>The free "Audit Track" course price includes limited access to course materials, world-class institutions and universities and edX support.</p>
Target group	Diverse target groups
Description/content	<p>This course focuses on sustainable development and global changes – vital issues for humanity. There is specific attention paid to the challenges in developed and developing countries and their transition from unsustainable to sustainable practices.</p> <p>The course is an introduction to sustainable development and its relation to the "Water-Energy-Food Nexus" (WEF). This connection between three critical resources offers a conceptual tool for achieving sustainable development. It has become increasingly important to understand the interdependencies and interrelationships between the three resources. Finding new approaches to manage the nexus could contribute significantly to achieving the "Global Sustainable Development Goals" (SDGs).</p> <p>Topics of this course include the following:</p> <ul style="list-style-type: none">Finding new ways to face water challenges and opportunitiesRenewable energies

- Energy efficiency
- Sustainable agriculture
- Climate change
- Rethinking established ways of resources management
- Types of virtual water
- The interrelationship between local and global challenges and economic as well as population growth
- The role of technology in the WEF nexus as well as managing the nexus at local, regional, and global levels

This course gives you a solid understanding of the connection between water, energy, and food, and enables you to manage resources in a sustainable and effective way. You'll build skills and knowledge that are key for sustainable development into the future.

You will learn about the following:

- global challenges and their limited resources
- how human activities can affect climate change
- the concept of sustainable development and global SDGs
- water scarcity, virtual water, and water footprint
- how to deal with energy challenges and opportunities
- the "nexus" between water, energy, and food (WEF) and their security
- desalination in the framework of the WEF nexus
- dealing with the WEF nexus at local and regional levels

Course details

Recognised language exams offered (e.g. DSH, TestDaF, TOEFL)	No
Types of online learning elements	<ul style="list-style-type: none"> • MOOC (Massive Open Online Course)
Online learning element is part of a study programme	No
Average number of hours per week	2
Average number of participants per group/course	2776

Costs / Funding

Dates and costs	4 weeks - 2 months, EUR 0 - 47
This price includes	<ul style="list-style-type: none"> • Course fees
Information on dates, prices and mode of study	The "Verified Track" course price (47 EUR) includes unlimited access to course materials, world-class institutions and universities, edX support, a shareable certificate upon completion and graded assignments and exams.

The free "Audit Track" course price includes limited access to course materials, world-class institutions and universities and edX support.

Requirements / Registration

Teaching language	<ul style="list-style-type: none">English
Language level of course	<ul style="list-style-type: none">English: B1, B2
Language requirements	Good level of English in reading, listening and writing
Technical equipment and programmes	Personal computer with an Internet connection and enough bandwidth
Submit application to	https://www.edx.org/course/sustainable-development-the-water-energy-food-nexu

Services

Is a social and leisure programme offered?	No
--	----

Contact

RWTH Aachen University

Lehr- und Forschungsgebiet Ingenieurhydrologie / Engineering Hydrology

apl Prof Dr-Ing Hani Sewilam

Mies-van-der-Rohe-Straße 17
52074 Aachen

✉ nacken@lfi.rwth-aachen.de

🌐 Course website: <https://www.edx.org/course/sustainable-development-the-water-energy-food-nexu>

Prof Dr-Ing Heribert Nacken

Tel. +49 2418025273

✉ [Email](#)

Last update 06.07.2024 23:25:05

International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.

German Academic Exchange Service

Section K23 – Information on Studying in Germany

Kennedyallee 50

D-53175 Bonn

www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

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