



Hochschule RheinMain
University of Applied Sciences
Wiesbaden Rüsselsheim



Summer School August 09 to 23, 2019

Environmental Engineering in Theory and Practice

Faculty of Engineering, Rüsselsheim

Scientific Program:

Lectures and a real hands-on laboratory course:

- Environmental protection: preventive versus end-of-pipe
- Cleaner production, waste management, wastewater/-air treatment, remediation, recycling, dismantling of E-waste
- Generation and use of renewable energies
- Excursions to companies using the technologies
- German language course and creation of a multi-lingual glossary



Requirements: General engineering knowledge

Language: English ♦ **Credits:** 3 ECTS

Cultural Program:

- "Rhein in Flammen" near Koblenz
- Boat trip on the Rhine, seeing Loreley and castles
- Visit to Frankfurt, Mainz, Rüdesheim, Kronberg
- Excursions to the cellars of a winery and a brewery
- Ride to Limes/Saalburg with picknick in Roman ruins



Costs: EUR 500 (lectures, labs, excursions, accommodation)

Registration until June 30, 2019

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**See you in
Rhein-Main!**

Dear Partner,
we would like to invite your students to attend our

**Summer School Program on
„Environmental Engineering in Theory and Practice“**

which will take place at the

Faculty of Engineering in Rüsselsheim from August 09 until August 23, 2019.

The program is open to all Bachelor or Master students interested in the environmental aspects of life. Students should have basic engineering knowledge. More detailed knowledge of environmental protection processes are an advantage, but not a must!

First, we will discuss different aspects of environmental protection (preventive versus end-of-pipe). In a lecture about “Cleaner Production”, students will learn about actual processes of preventive environmental protection in industrial production. Later we will see different aspects in reality during a guided tour at one of the plants of car producer *Opel* at the headquarters in Rüsselsheim.

We will learn about different techniques for environmental protection within waste management, waste water and waste air treatment. For remediation, we have a guest teacher directly from France who gives us new insights about how to treat polluted soil. The use of renewable energies for environmental protection will also be discussed. In addition, we will work in our laboratory to dismantle electronic waste on our own: then students can directly see which ideas work and which do not! ☺

In addition to the lectures, we will have high-level excursions: we will visit a waste incineration plant with very high energetic efficiency, a modern landfill in combination with a composting plant and a biogas plant as well as a company that works on the use of solar and wind energy.

This scientific program is added by a cultural program to convey participants a glimpse into the German way of living: we will start with “Rhein in Flammen” near Koblenz, later we will see touristic highlights as the *Loreley* and the castles along the river Rhine (UNESCO world heritage). We will see old and new towns (Rüdesheim, Kronberg and Frankfurt) and visit the “Limes” as a relic of Roman times and also one of UNESCO’s world heritage sites. Furthermore we will visit Mainz (the city of Johannes Gutenberg, who introduced printing with the printingpress to Europe) and Rüsselsheim with its city hall and its fortification and discover how German beer and wine are made! The program contains a language course in German and intercultural experiences with people from different continents. During the lectures, we will build up a multilingual glossary concerning environmental protection in the languages of all our participants.

The participation fee for students from our partner universities is **EUR 500**. It covers labs, courses, accommodation and all excursions which are included in the official program plus a big farewell dinner. The language of instruction is English.

You can register until **June 30, 2019** by sending an e-mail to **sekretariat-utd@hs-rm.de**.

We are looking forward to seeing your students in August!