

The Rhine-Waal University of Applied Sciences in Kleve and Kamp-Lintfort offers an innovative, international environment combined with first-rate teaching in interdisciplinary Bachelor and Master's degree courses, taught mainly in English. It is strong in conducting research in disciplines such as technology, natural sciences and social sciences. More than 7,000 students have already enrolled at the Rhine-Waal University of Applied Sciences.

The University of Applied Sciences has to award for the faculty Life Sciences in the Bachelor´s degree courses Sustainable Agriculture, B.Sc. at the campus in Kleve in the summer semester 2021 the following

## Lectureship

within the meaning of Section 43 of the Law regarding the Universities in the State of North Rhine-Westphalia (HG NRW):

**Reference number 06/LA/21**

**Subject area/Module: „Soil science and tillage“**

The freelance lecturer shall take over the lecture in the amount of 2 weekly lecturing hours (appr. 22 in total) in the module "Soil science and tillage" (2<sup>nd</sup> semester) of the bachelor course Sustainable Agriculture, B.Sc. in summer term 2021 (End of March till mid of July). The lectures shall be held in English and can be done as remote teaching using video conference tools.

### Contents

Physical, chemical and biological properties of soils; terms and definitions of soil science; soil formation, classification and use; threats to and conservation of soil resources; relevance of soils for agricultural production; methods of soil analysis; methods of soil health appraisal; basics of soil tillage and influence on soil properties

### Learning objectives

On successful completion of this module, students should

- know the relevant concepts of soil physics, soil chemistry and soil biology
- know how soils are formed, classified, function and can be protected
- be able to relate their knowledge about soils to its relevance in sustainable agriculture
- be able to apply standard analytical lab procedures of soil science in experiments
- be able to apply methods to assess soil fertility and health
- be able to analyse and document results and findings in a scientifically appropriate form
- be able to analyse how their data fit to the data of others
- be able to evaluate the influence of different tillage systems on soil properties and determine their sustainability
- be able to critically discuss options of sustainable soil use and soil health in an agricultural context

**Requirements:**

The lecturer shall have a corresponding university degree (e.g. agriculture, biology, geography). Didactic skill and the ability to hold the course with an international group of students in the English language are required (the language level shall be C1 according to the European reference framework).

The Rhine-Waal University of Applied Sciences offers lectures a systematic networking with the university as well as the opportunity of a specific training development to ensure a sustainable skill improvement, a closely link between theory and practice and a support for the personal development of lectures.

It is asked to send in just copies of documents as these cannot be returned.

Please send your application **until 15.02.2021** via e-mail **stating the reference number and the module title** addressed to

**Contact person:**

Title Prof. Dr. Florian Wichern

E-mail: [florian.wichern@hochschule-rhein-waal.de](mailto:florian.wichern@hochschule-rhein-waal.de)

For questions and further information please contact the mentioned contact person above.