

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 Communication and Environment in the master degree programme Design and Interaction at the campus in Kamp-Lintfort/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 10/LA/21

Subject area/Module: Design and Interaction / Human-Computer Interaction

The lecturer shall take over the lecture in the amount of **4 weekly lecturing hours** in the module "Human-Computer Interaction" (1st semester) of the master degree programme Design and Interaction. The lectures shall be **held in English** and can be done as **remote teaching**.

Learning Outcomes:

Students will gain a comprehensive introduction into the research field of human-computer interaction including the historic development and paradigm shifts over time. They will master the theory necessary to understand interactions between humans and machines and the methods to analyse, design and evaluate user interfaces ranging from traditional GUIs to novel interactive technologies such as tangible UIs or virtual reality. They acquire the competence to design interactive systems systematically, i.e. they will be able to research user contexts and needs, define requirements and apply core interaction design principles to real-world problems following an iterative process and employing human-centered and user experience design methods. They will understand how their design decisions affect users and be able to evaluate their designs regarding usability and user experiences as well as ethical and social aspects. They will be able to choose either quantitative or qualitative evaluation methods based on the research question. Furthermore, they will have basic knowledge in advanced interactive technologies and be able to discuss their implications on society critically.

Contents:

- Theories and Methods of Human-centered system design, HCI Paradigms
- Core concepts such as usability, UX, context of use
- Methods in HCI:

- HCI research methods (qualitative/quantitative, i.e. lab studies, ethnography, field studies)
- Evaluation techniques for interactive systems
- Human Capabilities:
 - Fundamentals in Human Information Processing: Perception, Cognition, Motorics
- User Interface Design / Interaction Design
 - Communication between man and machine: e.g. speech, GUIs, forms
 - Presentation, research and analysis of state-of-the-art advanced UIs: NUIs, Tangibles, Gesture-based Systems, VR ...
- Ethical, legal, societal implications (ELSI) of interactive technology design (e.g. Frameworks like value sensitive design)

Requirements:

The lecturer shall have a corresponding university degree and have practical experience. 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 by **15.03.21** via e-mail **stating the reference number and the module title** addressed to

Prof. Michael Pichler
 Communication Design
 michael.pichler@hsrw.eu

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