



**Course number: SET 10610**  
**Basic Concepts of Sustainability**  
**Study Level: Bachelor /**  
**Undergraduate**

**Prof. Dr. Maike Sippel**  
**Language of Instruction: English**  
**ECTS Credits: 5**

**Subject-specific competencies:**

- The students have a broad understanding of current global challenges (with a focus on planetary boundaries and sustainable development).
- They have a critical understanding of selected approaches to solutions in technology, society, corporate sector and politics.
- They can develop a picture of how the sustainability transition can work, and recognising how action by individuals and companies is interlinked with structural frameworks (laws, price structures, etc.).
- They understand the relevance and the potential for personal action - in work life and beyond.
- They are able to develop and apply action options, both on a footprint level and addressing structural change (handprint).

**Methodological competencies:**

- The students have the competence to conduct and evaluate a behavioural experiment over a period of several weeks (incl. writing a scientific report on the experiment).
- They can prepare a materiality analysis in the context of sustainability problems and solution approaches, e.g. identifying Big Points regarding emission reductions.

**Personal competencies:**

- The students can develop a personal and value based attitude towards sustainability (e.g. inter- and intra-generational justice), and to put one's action in line with those values.
- They are motivated to use the acquired professional and methodological competences in one's own actions, promoted by experiences of self-efficacy ("learning with head, heart and hand").