

## **STUDY PROGRAM**

### **Creative Engineering (Bachelor of Arts)**

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#### **Module Integration**

#### **Teaching Subject: Systems**

Credit points: 10

Contact hours: 6

#### **Modul contents**

In the "Systems" module, system approaches are analysed in depth, whereby a system can be thought of technically or conceptually. Analytical and digital approaches are brought together and scrutinised with regard to their individual context and benefits. Using a transdisciplinary methodology, systems are evaluated, approaches are developed and prototypical implementations are carried out based on a framework topic and under co-educational supervision.

In the module:

- existing systems are analysed and evaluated
- terminologies, approaches and methods from design and engineering are brought together - qualitative methods are familiarised with and applied (observation, questioning, surveys)
- influencing factors are systematically identified and evaluated
- systems are explored, adapted and transformed
- approaches to results are developed, which are prototyped using technical or conceptual models (e.g. media installations)

#### **Learning/qualification objectives:**

Knowledge as an overview of:

- Deepen and apply systems thinking
- Evaluate suitable system interventions

Skills in the basic application of:

- Fundamentals of project management (classic + agile)
- Presentation methods

Competences as problem-solving skills with regard to

- team-based realisation of conceptual or technical prototypes
- Linking mechanical and virtual approaches