



## Experimental design research and history of science Experimentell designforskning och vetenskapshistoria

5 credits

5 högskolepoäng

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**Ladok Code:** FTMED01

**Version:** 2.1

**Established by:** Artistic Research and Education Board 2017-12-18

**Valid from:** Spring 2018

**Education Cycle:** Third cycle

**Research Subject:** Design

**Prerequisites:** Master's degree in Design or equivalent

**Grading Scale:** Fail (U) or Pass (G)

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### Content

This course deals with the history of science, scientific discovery, and scientific judgement in relation to the documentation and analysis of experiments in design research, and provides in-depth instruction in design methodology as a research methodology.

### Learning Outcomes

To achieve a passing grade, the doctoral student shall:

1. Demonstrate advanced insight regarding how working methodologies, analyses, and results are related to the creation of concrete forms, artefacts, and other design examples within experimental research processes.
2. Demonstrate knowledge and understanding of different types of research methodology.
3. Demonstrate the ability to identify and formulate artistic issues with scholarly precision critically, autonomously and creatively.
4. Demonstrate the ability to plan och use appropriate methods to undertake research and other qualified artistic tasks within predetermined time frames and to review and evaluate such work.

### Forms of Teaching

The course consists of seminars, practical exercises and project-based supervision.

The language of instruction is English.

### Forms of Examination

The course is examined in relation to the intended learning outcomes through the following components:

- Seminars (Outcomes 1 and 2), 2.5 higher education credits. Grading scale: Pass/Fail.
- Documentation of project work (Outcomes 3 and 4), 2.5 higher education credits. Grading Scale: Pass/Fail.

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

### Literature and Other Teaching Methods

Aardse, H. and van Baalen, A. (2010). *Findings on elasticity*. Amsterdam: Pars Foundation

Cash, P., Stankovic, T., and Storga, M. Eds. (2016). *Experimental Design Research Approaches, Perspectives, Applications*. Cham: Springer

Godfrey-Smith, P. (2003). *Theory and Reality: An Introduction to the Philosophy of Science*. Chicago: The University of

Chicago Press

Schwab, M. E.d (2013). *Experimental systems: future knowledge in artistic research*. Leuven: Leuven University Press

Weinberg, S. 2016. *To Explain the World: The Discovery of Modern Science*. London: Allen Lane

Other literature of relevance to the course will be added to this list.

### **Student Influence and Evaluation**

The course is evaluated in accordance with the current guidelines of the University of Borås, which state that the feedback of doctoral students is to be collected. The course evaluation report is published and made available to the doctoral students in accordance with the aforementioned guidelines, and forms the basis for the future development of courses. The course coordinator is responsible for ensuring that the evaluation is carried out according to the above.

### **Miscellaneous**

This course is primarily provided for the third-cycle programme in Design in the Textiles and Fashion research area.