



## Thesis for Master's Degree in Textile Engineering (1 year)

### Examensarbete för magisterexamen, textilteknik

15 credits

15 högskolepoäng

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**Ladok Code:** 52EX15

**Version:** 2.1

**Established by:** Committee for Education in Technology 2016-04-04

**Valid from:** Spring 2016

**Education Cycle:** Second cycle

**Main Field of Study (Progressive Specialisation):** Textile Engineering (A1E)

**Disciplinary Domain:** Technology

**Prerequisites:** Admitted to the Master's Programme in Textile Engineering (1 year) with at least 15 credits passed and also passed Scientific Methodology and Communication, 7.5 credits, or equivalent.

**Subject Area:** Textile Technology

**Grading Scale:** Seven-degree grading scale (A-F)

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### Content

The thesis project gives the students opportunity to demonstrate that they actually master advanced textile engineering. That means handling materials, complex structures and the processes to make them. Also the students' generic abilities such as oral and written communication, analytical and time management skills are evaluated by the thesis project. Ethical and environmental aspects of textile engineering are also assessed. The individual thesis is conducted as a research or development project at a university, research institute or company. The subject, of textile science nature, shall relate to current research or development of textile technological nature.

### Learning Outcomes

The thesis project is the final part of the master's programme. The examinee who pass should be able to

#### 1. Knowledge and understanding

- 1.1 apply comprehensive textile technological skills regarding materials, constructions and processes,
- 1.2 gain knowledge that touches the research frontier in at least one domain of textile technology,
- 1.3 problematize sustainability aspects of textile technological materials, processes and products,

#### 2. Skills and abilities

- 2.1 integrate knowledge and be able to analyze problems in novel scientific contexts,
- 2.2 plan and execute big textile technological development projects within set time limits,
- 2.3 consider aspects of both society and individuals when designing new materials, processes and products with a sustainability perspective,
- 2.4 communicate textile scientific messages both orally and in writing to scholars as well as laymen,
- 2.5 master research and development issues as well as other advanced textile technological activities,

#### 3. Judgment and approach

- 3.1 consider ethical aspects of textile technological issues crucial to society, in particular aspects of research and development,
- 3.2 reflect upon individual skills and knowledge progression with an open mind to identify knowledge gaps.

### Forms of Teaching

The teaching may consist of both individual and groupwise supervision.

The language of instruction is English.

### Forms of Examination

Examination of the course occurs through:

- Assignment 1, Start-up seminar, visual and oral presentation, 1 credit (learning outcome 1.1, 1.3, 2.1, 2.4-2.5, 3.2) Grading scale:Pass/fail (UG)
- Oral and visual presentation, 0.5 credit, (learning outcome 1.1-1.3, 2.1-2.5, 3.1-3.2) Grading scale:E7
- Oral and written peer review ,0.5 credit, (learning outcome 1.1, 1.3, 2.1, 2.3-2.5, 3.1) Grading scale:E7
- Assignment 2, Written thesis, 13 credit, (learning outcome 1.1-1.3, 2.1-2.5, 3.1-3.2) Grading scale:E7

The student must pass each examination step, i.e. obtain G at assignment 1 and at least an E in the following examinations to achieve a minimum overall grade of E. The final grade will be the weighted grade of all E7 examinationsteps.

The grading scale for the course is: Seven-degree grading scale (A-F)

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

### **Literature and Other Teaching Materials**

Relevant scientific literature identified by the student that may include literature from former programme courses.

### **Student Influence and Evaluation**

The views of students will be canvassed systematically and regularly by means of written course assessments once courses are complete. For further information, please see the university policy on course assessments and documents prepared by the Faculty Board, Director of Studies and Course Coordinator.

### **Miscellaneous**

This course is primarily a programme course in the Master's Programme in Textile Engineering.