



## MSc thesis project in Textile Engineering

### Examensarbete i textilteknik

30 credits

---

**Ladok Code:** AT2TT1

**Version:** 1.0

**Established by:** Committee for Education in Technology 2025-05-09

**Valid from:** Spring 2025

**Education Cycle:** Second cycle

**Main Field of Study (Progressive Specialisation):** Textile Engineering (A2E)

**Disciplinary Domain:** Technology

**Prerequisites:** Admitted to Master Programme (Two Years) in Textile Engineering. The student shall also have acquired at least 60 credits from the programme.

**Subject Area:** Textile Technology

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

---

### Content

The master thesis project ensures that students master their tools acquired before and during the programme touches the science frontier in a specific textile engineering domain. A student who is able to synthesize knowledge, understanding, skills, abilities and judgement during the thesis course can be called a Master of Textile Engineering. The thesis project should address the scientific aspects of a professional textile issue or problem of technical nature. A dedicated supervisor is appointed for each thesis project. In addition to their own project, the students will also oppose and reflect on other's work and communicate their results to a board audience.

### Learning Outcomes

The thesis project is the final part of the master's programme. The examinee that passes should independently be able to:

#### 1. Knowledge and understanding

- 1.1 apply comprehensive textile technological skills regarding materials, constructions and processes, and utilize these skills in exploring advanced textile applications,
- 1.2 acquire in-depth knowledge of at least one specialized textile technology topic that touches the research frontier,
- 1.3 account for sustainability aspects of textile technological materials, processes and products of relevance for the thesis subject and its context, and
- 1.4 if applicable demonstrate practical understanding of the impact of digitalization in textile functionalization, manufacturing, and the supply value chain.

#### 2. Skills and abilities

- 2.1 integrate knowledge and critically analyze, assess and deal with complex textile technological phenomena, issues and situations by solid scientific means even in cases where limited information is available,
- 2.2 creatively plan and execute complex textile technological R&D projects within set time limits and quickly acquire necessary knowledge and skills,
- 2.3 consider aspects of both society and individuals when designing new materials, processes, and products with a sustainability perspective,
- 2.4 communicate textile technological content in good English orally, visually and in writing to textile technology scholars, industry representatives, peers and laymen,
- 2.5 design or adapt textile functionalization and manufacturing processes for circular economy incorporating advanced textile methods, and
- 2.6 critically review and provide constructive feedback on other's thesis project

#### 3. Judgment and approach

- 3.1 acknowledge and consider ethical aspects of textile technological issues crucial to society, in particular aspects of research

and development, and

3.2 reflect upon individual knowledge and skills progression, acknowledge and bridge such gaps

### **Forms of Teaching**

Both individual and groupwise supervision is applied.

The language of instruction is English.

### **Forms of Examination**

The course will be examined through the following examination elements:

*Seminar 1, Start-up seminar, visual and oral presentation*

Learning outcomes: 1.1, 1.3-1.4, 2.1, 2.4-2.5, 3.2

Credits: 1

Grading scale: Fail (U) or Pass (G)

*Seminar 2, Half-way seminar, visual and oral presentation*

Learning outcomes: All learning outcomes

Credits: 14

Grading scale: Fail (U) or Pass (G)

*Seminar 3, Final seminar, visual and oral presentation*

Learning outcomes: All learning outcomes

Credits: 0.5

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

*Assignment 1, Oral and written opposition*

Learning outcomes: 1.1, 1.3, 2.1, 2.4,-2.6, 3.1

Credits: 0.5

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

*Assignment 2, Essay*

Learning outcomes: All learning outcomes

Credits: 14

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

Students must pass each examination step to achieve a minimum overall grade of E. The final grade is determined by the weighted grade of all A-F examination steps.

If the student has received a decision/recommendation regarding special pedagogical support from the University of Borås due to disability or special needs, the examiner has the right to make accommodations when it comes to examination. The examiner must, based on the objectives of the course syllabus, determine whether the examination can be adapted in accordance with the decision/recommendation.

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

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

Relevant literature is governed by the nature of the project and chosen together with the supervisor.

### **Student Influence and Evaluation**

The course is evaluated in accordance with current guidelines for course evaluations at the University of Borås in which students' views are to be gathered. The course evaluation report is published and returned to participating and prospective students in accordance with the above-mentioned guidelines, and will be taken into consideration in the future development of courses and education programmes. Course coordinators are responsible for ensuring that the evaluations are conducted as described above.

### **Miscellaneous**

This syllabus is a translation from the Swedish original.

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

