



Innovative Textile Product Development Innovativ textil produktutveckling

7.5 credits

Ladok Code: AT2IP2

Version: 2.0

Established by: Committee for Education in Technology 2023-10-06

Valid from: Spring 2024

Education Cycle: Second cycle

Main Field of Study (Progressive Specialisation): Textile Technology (A1F)

Disciplinary Domain: Technology

Prerequisites: Completed courses in Creative Design Processes and Textile Product Development

Subject Area: Textile Technology

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

Content

Innovative Textile Product Development is a progression of previous studies in product development. The course is conducted in project form and focuses on product development from an innovation perspective based on disruptive innovation and its power to change entire business areas. The power of the textile innovation process is illustrated through a number of historical examples and their impact on society. Applicable methods for market analysis of technologies and products, aspects such as freedom to operate, and economic conditions for new products are introduced in the course.

During the course, students will actively work on the conceptualization and realization of innovative product ideas. Based on previous knowledge in textile product design, construction and joining, students will create prototypes of textile products.

Learning Outcomes

After completing the course, the student will be able, with respect to:

Knowledge and understanding

- 1.1 account for driving forces of textile innovation,
- 1.2 explain how value propositions and business concepts are founded and sculpted,
- 1.3 explain the concept and power of disruptive innovation.

Skills and abilities

- 2.1 select and apply innovation strategies in textile product development,
- 2.2 use sustainability as a source of textile innovation,
- 2.3 identify user needs and translate these into value propositions,
- 2.4 evaluate, formulate, and analyse business concepts,
- 2.5 independently create and practically develop an innovative textile prototype,
- 2.6 choose patent strategies and reflect on their impact on business operations,
- 2.7 communicate results from own analysis and project work both in writing and orally to peers, teachers, and any external representative, and
- 2.8. discuss the impact of patent strategies on the innovative product development process.

Judgement and approach

- 3.1 reflect and analyse how the individual, society and organization affect and are affected by textile innovations.

Forms of Teaching

Lectures, seminars, case studies, supervised project work and workshops.

The language of instruction is English.

Forms of Examination

The course will be examined through the following examination elements:

Assignment 1 and seminar

Learning outcomes: 1.1–1.3, 2.1–2.4, 2.6–2.8

Credits: 1

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

Assignment 2: Project report

Learning outcomes: 1.2–1.3, 2.1–2.8, 3.1

Credits: 4

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

Assignment 3: Prototype demonstration

Learning outcomes: 1.3, 2.3, 2.5

Credits: 2

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

Oral and visual project presentation

Learning outcomes: 1.2–1.3, 2.1–2.8, 3.1

Credits: 0.5

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

The grade of the project report determines the final grade of the course, which is issued when all examination components have been passed.

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

Course literature is announced at the start of the course and will be available via HB: s learning platform.

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

The course is primarily a program course for the master's program in Textile Technology. The course is a progression on knowledge from the course Creative Design Processes and Textile Product Development.

This syllabus is a translation from the Swedish original.