



Textile Product Manufacturing Konfektionsteknik

5 credits

Ladok Code: AT1KF1

Version: 3.0

Established by: Committee for Education in Technology 2024-10-04

Valid from: Spring 2025

Education Cycle: First cycle

Main Field of Study (Progressive Specialisation): Textile Technology (G1F)

Disciplinary Domain: Technology

Prerequisites: Basic eligibility (with the exception of the requirement for Swedish), having been registered on the Textile basic course 5 credits

Subject Area: Textile Technology

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

Content

Manufacturing technology is a process within the textile industry which involves the mass production of clothing and other textile products by joining textiles, such as fabrics, and trimmings. The goal of the process as a whole is to achieve efficient and profitable mass production of the desired quality. Within manufacturing technology, sewing is the most common joining technique and is therefore the focus of this course. The aim of the course is to provide a basic understanding of the overall process in the production of a textile joined product. Important aspects in the process are cutting, consumption calculation, production cost and customizing the product based on size, other needs and requirements. This understanding is complemented by overall knowledge of design principles for product development and how documentation is done. Furthermore, standards in the textile product manufacturing area are touched upon, as well as how the choice of materials, stitch and seam types, manufacturing methods and decisions affect the end result and costs. The theoretical content of the course is clearly linked to practical elements in laboratory sessions, where a textile product is joined together and quality reviewed based on the requirements placed on the end product from both production and customer perspectives. Product analysis and documentation in the course takes place in different ways and at different stages of the process, in order to promote a deeper understanding of the broad content of the subject

Learning Outcomes

Upon completion of the course, the student should be able to, with regard to:

Knowledge and Understanding

- 1.1 describe the product development process for joined textile products,
- 1.2 explain the importance of sustainable material and accessory choices, and how materials and patterns affect consumption calculation, cost and customer-perceived quality in the area of the course,
- 1.3 explain the production process and different production methods for joined textile products,
- 1.4 identify the most common sizing systems for clothing and construction principles as well as bodily fit theory,
- 1.5 identify documents and equipment and link these to their areas of use,
- 1.6 describe the process of joining of materials and accessories for textile products and give suggestions on appropriate joining methods in the sewing process,
- 1.7 identify the most common stitches and seams when joining on industrial sewing machines, and describe their uses and relate these to different standards,
- 1.8 explain how the cutting of product patterns on fabric is carried out industrially, as well as the effect of the cutting on the product's consumption calculation and cost,
- 1.9 identify standards linked to the textile product manufacturing area,
- 1.10 explain quality review and quality assurance of products related to customer perceived quality,
- 1.11 describe the product development process from an overall perspective based on the own manufactured product.

Skills and Abilities

- 2.1 prepare product calculations and documents for joined textile products,
- 2.2 use and explain common technical terms in the field in English,
- 2.3 operate common industrial sewing and pressing equipment at a basic level, and with the help of this equipment produce a simple textile product,
- 2.4 perform a quality review on a joined textile product, and relate to the customer's perceived product quality,
- 2.5 connect the product production process to the product's quality and the customer's perceived quality.

Valuation and approach

- 3.1 analyze and discuss process and production flows and their respective consequences on the product's final result,
- 3.2 evaluate and analyze the quality and properties of joined textile products and make suggestions for improvements regarding materials, trimmings, joining and production, based on knowledge acquired within the course.

Forms of Teaching

The teaching in the course consists of:

- Lectures
- Laboratory work

The language of instruction is English. However, instruction in Swedish may occur.

Forms of Examination

The course will be examined through the following examination elements:

Exam

Learning outcomes: 1.1 – 1.11, 2.1, 2.2, 2.4, 2.5, 3.1, 3.2

Credits: 3

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

Practical laboratories (practical implementation)

Learning outcomes: 1.2, 1.5 – 1.8, 1.10, 2.2 – 2.4, 3.2

Credits: 1

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

Seminar (group)

Learning outcomes: 1.2, 1.3, 1.5 – 1.8, 1.10, 1.11, 2.1, 2.2, 2.5, 3.1, 3.2

Credits: 1

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

The value of the written exam determines the course's final grade, which is granted when all examination elements have been approved.

Re-examinations can be coordinated with other course sessions when the course is given several times per academic year.

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

Bubonia, J.E. (the latest edition). Apparel quality: a guide to evaluating sewn products. New York: Fairchild Books Persons.

Rosenau, J.A. & Wilson, D. (the latest edition). Apparel merchandising: the line starts here. 2nd ed. New York: Fairchild Publications.

Sustainability and Circularity in the Textile Value Chain - A Global Roadmap.

<https://www.unep.org/resources/publication/sustainability-and-circularity-textile-value-chain-global-roadmap> .

Svensson, C. (2005). Konfektionsteknisk ordbok: svensk-engelsk: engelsk-svensk. Borås: Christina Svensson.

Supplementary materials are available via the University of Borås learning platform.

The literature is in English with few exceptions.

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 a part of the range of basic courses in textile technology. If the entire student group and the responsible teacher agree, the oral teaching and examination in the course can be given in Swedish. The course is based on knowledge from the Textile Basic Course 5 credits.

This syllabus is a translation from the Swedish original.