UNIVERSITY OF BORÅS

# Production Technology for Textile Products

## Produktionsteknik för textila produkter

7.5 credits

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**Ladok Code:** AT1PT2
**Version:** 1.0
**Established by:** Committee for Education in Technology 2026-05-29
**Valid from:** Autumn 2026

**Education Cycle:** First cycle
**Main Field of Study (Progressive Specialisation):** Textile Technology (G2F)
**Disciplinary Domain:** Technology
**Prerequisites:** Total 65 credits: Textile basics (5 credits), Fiber- and yarn Technology (5 credits), Weaving Technology (5 credits), Knitting Technology (5 credits), Nonwoven Technology (5 credits), Dyeing and Finishing (5 credits), Clothing Technology (5 credits), Textile Science I (7,5 credits), Textile Science II (7,5 credits), Technical Textile Product Development (7,5 credits), Textile Innovation (7,5 credits) and have been registered on: Project Management and Global Communication (7,5 credits), Joining Technology for Textile Products (5 credits) and Quality Assurance and Textile Testing (5 credits).
**Subject Area:** Textile Technology
**Grading Scale:** Seven-degree grading scale (A-F)

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### Content

The course addresses production technology for textile products in an industrial context, with a focus on the manufacturing of sewn textile products.

The course provides a broad and applied understanding of how textile products are manufactured within industrial production systems. The production process covers sewing, pressing, and finishing, as well as the application of trims. Industrial equipment for sewing and pressing, and their respective areas of use, are examined in relation to different production setups and production flows. Production planning concepts such as capacity, throughput time, and line balancing are addressed. The relationship between production technology processes and their impact on production quality and production efficiency is examined, as is how this enables the development and renewal of textile products.

The course also addresses how production related decisions affect sustainability from an economic, environmental, and social perspective. Practical elements are included to support theoretical understanding and to connect prior studies to industrial production contexts.

### Learning Outcomes

After completing the course, the student should be able to:

**Knowledge and understanding**
1.1 Describe fundamental concepts and established methods in production technology for textile products within the manufacturing process
1.2 Account for the main stages of the textile manufacturing process and how production decisions enable the development and renewal of textile products

**Skills and abilities**
2.1 Apply fundamental techniques and working methods in production technology for textile products using selected machines, equipment, and technical documentation
2.2 Apply production setups with consideration of production planning parameters such as capacity, throughput time, and line balancing
2.3 Describe and justify the choice of production process
2.4 Retrieve and communicate relevant technical information in production technology for textile products in both written and oral form

**Judgment and approach**
3.1 Reflect on production technology for textile products from economic, environmental, and social perspectives
3.2 Reflect on the significance of production technology knowledge in the manufacturing of textile products and identify needs for further personal competence development

## Forms of Teaching

The teaching in the course consists of:
lectures
workshops and laboratory sessions

The language of instruction is English.

## Forms of Examination

The course will be examined through the following examination elements:

*Submission: written and practical assignment*
Learning outcomes:
Credits: 4
Gradingscale: Seven-degree grading scale (A-F)

*Seminar 1*
Learning outcomes:
Credits: 1
Gradingscale: Fail (U) or Pass (G)

*Seminar 2*
Learning outcomes:
Credits: 1.5
Gradingscale: Fail (U) or Pass (G)

*Written reflection*
Learning outcomes:
Credits: 1
Gradingscale: Seven-degree grading scale (A-F)

The final grade (A–F) is based on the weighted average of the results from Submission and Written Reflection, which is issued when all examinations are 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

Karthik, T., Ganesan, P. & Gopalakrishnan, D. Apparel Manufacturing Technology. Taylor & Francis (latest edition).
Abc Seams Pty Ltd. Sewing seams for tech packs: A visual guide to produce clothing, Part 2.
Additional course materials are provided via the 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

This syllabus is a translation from the Swedish original.
The course is primarily a program course for Textile Production and Innovation, within the specialization Product Innovation.