

Textile Production

Textil Produktion

7.5 credits

7.5 högskolepoäng

Ladok Code: AT1TE2

Version: 2.0

Established by: Committee for Education in Technology 2021-10-06

Valid from: Autumn 2021

Education Cycle: First cycle

Main Field of Study (Progressive Specialisation): Textile Engineering (G2F)

Disciplinary Domain: Technology

Prerequisites:

Subject Area: Textile Technology

Grading Scale: Fail (U), Pass (G) or Pass with Distinction (VG)

Content

both theoretical and practical elements. The subject of pattern construction is introduced through practical exercises. The theory portion deals with sustainability issues related to textile production and their impact on people in the production environment, the environmental impact of the product, quality, as well as cost calculation. Collection planning sets the framework and ensures linkages to strategic planning and a broad understanding of the supply chain. By following a textile product from design to production, the student practices evaluating and analysing its processes from several perspectives.

With a professional focus, the ability to critically examine, practically apply and document relevant processes from design to production is developed. Broadened knowledge allows for more sustainable decisions to be made in the clothing production chain. The student gains an approach to social sustainability aspects both nationally and internationally.

Learning Outcomes

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

Knowledge and understanding

- 1.1 explain the relationship between product-related decisions and their impact on the whole garment making process,
- 1.2 describe clothing production in relation to the textile value chain,
- 1.3 explain the material requirements associated with basic pattern construction.

Skills and abilities

- 2.1 discuss product-related choices and link these to economic, social and/or environmental sustainability,
- 2.2 draw up the necessary documents supported by previous studies and literature,
- 2.3 apply a critical approach to sources and their use,
- 2.4 use professional language and correct technical terms.

Evaluation ability and approach

- 3.1 document, assess and evaluate a textile production unit with a focus on clothing,
- 3.2 analyse the total cost of the textile product and assess the reasonableness of a final price,
- 3.3 reason about the quality and sustainability issues of textile products and their impact on the cost of the product ,
- 3.4 reflect, orally and in writing, on the opportunities and challenges of garment production in relation to sustainable development and the UN's Sustainable Development Goals,
- 3.5 identify their need for additional knowledge in the professional role and suggest ways in which this can be developed.

Forms of Teaching

The teaching takes the form of:

- Lectures
- Laboratory Sessions
- Literature studies

Teaching is conducted in both English and Swedish.

The languages of instruction are English and Swedish.

Forms of Examination

The course is examined through the following examination components:

- Pattern construction (group)
Learning outcomes 1.3, 2.2-2.4, 3.2
Credits: 2.5
Grading scale: Pass/Fail
- Submission (group)
Learning outcomes 1.1-1.3, 2.1-2.4, 3.1-3.3
Credits: 3.0
Grading scale: Pass/Fail
- Individual submission
Learning outcomes 1.2-1.3, 2.1-2.4, 3.4-3.5
Credits: 2.0
Grading scale: Fail/Pass/Pass with distinction

The final grade of the course is only awarded when all components have been passed. To achieve a passing grade on the course, a passing grade is required on the individual submission, which determines the final grade on the course.

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 Methods

Anttila, R. et al. (2005). Trial and error: [the style is done by the woman]. Helsinki: Board of Education.

Cai, Y.-J. & Choi, T.-M. (2020). A United Nations' Sustainable Development Goals perspective for sustainable textile and apparel supply chain management. *Transportation research. Part E, Logistics and transportation review*, 141, pp. 102010-102010. doi:10.1016/j.tre.2020.102010

Karthik, T., Ganesan, P. & Gopalakrishnan, D. (2017). *Apparel manufacturing technology*. Boca Raton: Taylor & Francis, a CRC title, part of the Taylor & Francis imprint, a member of the Taylor & Francis Group, the academic division of T&F Informa, plc.

Lee, J. & Steen, C. (2019). *Technical sourcebook for apparel designers*. Third edition. New York: Fairchild Books, an imprint of Bloomsbury Publishing Inc.

United Nation (UN). (2015). *Transforming the world: The 2030 Agenda for Sustainable Development*. <https://sustainabledevelopment.un.org/post2015/transformingourworld/publication>

Other literature and articles will be included, up to a maximum of 200 pages. Supplementary material is also available via the university'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

This syllabus is a translation from the Swedish original.