

Textile Overview - Knitting Technology

Textil översiktskurs - Trikåteknik

3 credits

Ladok Code: AT1KK1

Version: 3.0

Established by: Committee for Education in Technology 2022-01-28

Valid from: Autumn 2022

Education Cycle: First cycle

Main Field of Study (Progressive Specialisation): Textile Technology (G1N)

Disciplinary Domain: Technology

Prerequisites: General entry requirements for university studies.

Subject Area: Textile Technology

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

Content

The course aims to provide the student with basic knowledge in knitwear technology for industrial knitting and basic knowledge of the structure and properties of industrial knit products and their applications. The course deals with the general conditions and principles for knitting techniques, knitted structures, mechanical principles, and different types of knitting machines. The course also includes the quality assessment of knitwear.

The course focuses on weft knitted structures; warp knitwear is only discussed in general in this course.

Learning Outcomes

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

Knowledge and understanding

- 1.1 explain knitting technical definitions and concepts and the division, structure and build-up of knitted raw materials,
- 1.2 explain, master and be able to analyze different types of knitted structures for industrial knitted production,
- 1.3 relate quality properties to different production methods and materials.

Skills and Abilities

- 2.1 analyze, compare and assess different types of knitwear products and relate these to quality,
- 2.2 examine and assess what affects the quality of a knitwear product,
- 2.3 examine and identify quality problems that may arise in knitwear production,
- 2.4 evaluate and assess different possibilities for production adaptations.

Forms of Teaching

The teaching is given completely at distance through digital lectures.

The language of instruction is English.

Forms of Examination

Course is examined through the following examination parts:

- Written test
Learning objectives: 1.1-1.3, 2.1-2.4 (all)
Credits: 3,0
Grading Scale: Seven-degree grading scale (A-F)

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

The course literature is in English.

Spencer, DJ, Knitting Technology, A Comprehensive Handbook and Practical Guide (3rd Edition), Woodhead Publishing, (may be available as an E-book via the university library)

Additional course literature will be informed about at the start of this course and will be available through 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 programs. Course coordinators are responsible for ensuring that the evaluations are conducted as described above.

Miscellaneous

The course is an independent overview course and is given at a distance, with the aim of giving the student a basic orientation in the subject. The course is part of a group of courses with the aim of contributing to the fulfillment of the prerequisites for applying to the university's master's program with a major in textile technology and is therefore primarily aimed at students studying for or holding a master's program with a major in technology.