

Textile Overview - Assembly techniques

Textil översiktskurs - Sammanfogningstekniker

3 credits

Ladok Code: AT1TN1

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 a basic understanding of the product, process and production of joined textile products. The student acquires basic knowledge of the many ways in which textile materials can be combined into products of various kinds such as clothes, bags, car upholstery, airbags, etc. The course has a clear focus on industrial production and joining fabrics to textile products and understanding the product development process from idea to finished product. The focus is on sewing as a joining technique, but also deals with other joining methods such as ultrasonic welding and gluing as well as taping and lamination techniques.

Learning Outcomes

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

Knowledge and understanding

- 1.1 describe different ways of joining textile materials,
- 1.2 describe the function of different machines for joining and explain their basic structure,
- 1.3 identify equipment in textile production and associate it with its area of use,
- 1.4 identify stitches and seams and describe their properties and use.

Skills and Abilities

- 2.1 choose appropriate joining techniques depending on the properties and structure of the textile materials and the use of the product
- 2.2 assess the quality of a product with a focus on its joining technology,
- 2.3 identify different types of seam errors (eg thread tension, seam slip), explain the causes and give suggestions for improvement,
- 2.4 analyze joined textile products and in a fundamental level describe their properties, components and joints.

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: 1.1-1.4, 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 .

Jones I. and Stylios G.K. (red.) (2013). *Joining Textiles, Principles and Applications*. Woodhead Publishing Series in Textiles, (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.

This syllabus is a translation from the Swedish original.