



Textile Overview – Dyeing and finishing Textil översiktskurs – Färgning och beredning

3 credits

3 högskolepoäng

Ladok Code: AT1BD1

Version: 2.0

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 Engineering (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 aim of this course is to offer students an overview in the field of textile dyeing and finishing. The content includes sub-processes such as pre-and post treatments, dyeing and functionalization. It gives fundamental knowledge, tools and concepts needed to understand how the properties of a textile products are added or changed through different textile processes. The students will be able to critically evaluate the various processes with regard to aesthetic and functional needs in relation to the requirements for sustainable products.

Learning Outcomes

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

Knowledge and understanding

- 1.1 demonstrate how textile materials, chemicals and processes influence on quality, aesthetics, and functional properties,
- 1.2 describe industrial textile dyeing and finishing processes including resource efficient and sustainable production processes,
- 1.3 describe how color measurements, quality controls and test methods are used within dyeing and finishing.

Skills and Abilities

- 2.1 interpret the expectations of a textile product and formulate these into relevant requirements specifications,
- 2.2 identify and describe relevant industrial processes that gives textile materials the desired properties.

Evaluation ability and approach

- 3.1 demonstrate the ability to take into account current legislation in the area and insight into companies' responsibility for a sustainable development.

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, 2.1-2.2, 3.1 (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 Methods

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.