UNIVERSITY OF BORÅS

Dyeing, textile printing and finishing, advanced level
Färgeri, textiltryck och beredningsteknik, avancerad nivå
7.5 credits

Ladok Code: AX2FG1
Version: 9.0
Established by: Artistic Research and Education Board 2021-08-25
Valid from: Autumn 2021

Education Cycle: Second cycle
Main Field of Study (Progressive Specialisation): Textile and Fashion Design (A1N)
Disciplinary Domain: Design
Prerequisites: Bachelor's degree in design (180 credits) or equivalent.
Subject Area: Design
Grading Scale: Fail (U) or Pass (G)

Content
The course aims to develop artistic and technical ability in the areas of pre-treatment, dyeing, printing and final preparation through application and experimental investigation of the expressive and functional possibilities of different techniques. The main content of the course is:

- Various textile preparation processes such as pre-treatment, dyeing, printing, and finishing processes
- Materials, colours, chemicals and their significance for achieving the desired properties of the textile product and its impact on the environment, textile life and production cost
- Colour in regards to theory, communication, and application in industry
- Working methods and approaches in relation to sustainable materials and textile production
- Laboratory exercises in repeated patterns, dyeing, printing, and preparation techniques, as well as special treatments for functional applications
- Laboratory exercises in digital printing techniques such as transfer printing, laser cutting, and 3D printing
- Independent experimental design work and application use of dyeing, printing, and finishing techniques

Learning Outcomes
After completing the course, students should be able to:

1. explain the effect of dyes and chemicals on the properties of textile materials, in both aesthetic and functional terms,
2. describe and analyse the effects that the choice of dyes, chemicals and processes have on the environment, and on the cost and lifespan of the product,
3. demonstrate an understanding of sustainable materials and approaches,
4. independently carry out different types of dyeing, printing and processing of textile materials,
5. apply adequate techniques methods and materials in relation to their own design concept,
6. document and reflect on technology in relation to own chosen design work.

Forms of Teaching
The teaching takes the form of lectures, seminars, laboratory work and supervision.

The language of instruction is English.

Forms of Examination
The course will be examined through the following examination elements:

- Written exam (Learning outcomes 1,3) 2 credits Grading scale: Fail (U)/Pass (G)
- Laboratory work with laboratory report (Learning outcomes 2) 2 credits Grading scale: Fail (U)/Pass (G)
- Portfolio presentation of design work (Learning outcomes 4-6) 3.5 credits Grading scale: Fail (U)/Pass (G).

For the grade passed on the entire course, an approved grade is required for all parts.

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

Kadolph, Sara J. & Marcketti, Sara B. (2017). *Textiles.* 12th ed. Boston: Pearson.
Cohen, Allen C., Johnson, Ingrid & Pizzuto, Joseph J. (2012). J.J. *Pizzuto's Fabric science.* 10th ed. New York: Fairchild Books
Kooroshnia, Marjan (2017). *On textile printing with thermochromic inks.* Doctoral dissertation, University of Borås http://urn.kb.se/resolve?urn=urn:nbn:se:hb:diva-11896
Kristensen Johnstone, Tonje (2020). *Around Over Between Up...: spatial properties as variables in textile design.* Doctoral dissertation, University of Borås http://urn.kb.se/resolve?urn=urn:nbn:se:hb:diva-23742

Student Influence and Evaluation

The course is evaluated in accordance with current guidelines for course evaluations at the University of Borås, in which student perspectives are to be collected.
The course evaluation report is published and made available to participating and prospective students in accordance with the above guidelines and forms the basis for the future development of courses and educational programmes. The course coordinator is responsible for ensuring these guidelines are followed.

Miscellaneous

The course is primarily an elective course for the Master's Programme in Fashion and Textile Design.
The main focus of the course is on intended learning outcomes: 5a, 6a-b.

This syllabus is a translation from the Swedish original.