UNIVERSITY OF BORÅS

Construction technique, advanced level
Konstruktionsteknik, avancerad nivå
7.5 credits

Ladok Code: AX2KO1
Version: 7.0
Established by: Artistic Research and Education Board 2020-10-26
Valid from: Autumn 2020

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.
Subject Area: Design
Grading Scale: Fail (U) or Pass (G)

Content
The course aims to develop artistic ability in construction technique through application and experimental exploration of the expressive and functional opportunities offered by various technologies. The main content of the course is as follows:

- Analysis and replica of construction techniques
- Development of construction techniques
- Construction theory
- Experimental construction work
- Digital design tools
- Working methods and ways of thinking in relation to sustainable materials

Learning Outcomes
Once the course has been passed, students should be able to:

1. analyse and reconstruct construction techniques in relation to form,
2. apply knowledge of construction development in relation to form,
3. carry out and run experimental design work in relation to construction,
4. develop and communicate a design idea to pattern cutters and producers,
5. apply adequate technologies and materials in relation to their own design concept,
6. document and reflect on technology in relation to the design process,
7. demonstrate an understanding of sustainable materials and approaches.

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

The language of instruction is English.

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

- Submission of independent design work (Learning outcomes 1-3) 5 credits Grading scale: Fail (U)/Pass (G)
- Documented presentation and reflection (Learning outcomes 3-7) 2.5 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

Liliana, I., Mutlu, M. M., Efendioglu, N. O., Simona, T., Garcia, P. D., & Soler, M. (2019). Computer aided design of knitted and woven fabrics and virtual garment simulation. Industria Textile, 70(6), pp. 557-563. doi:10.355530/it.070.06.1659

Lindquist, R. (2015). Kinetic Garment Construction: Remarks on the Foundations of Pattern Cutting. Diss. Borås: Högskolan i Borås. urn:nbn:se:hb:diva-25

Liu, K., Zeng, X., Bruniaux, P., Tao, X., Li, V & Wang, J. (2018). 3D interactive garment pattern-making technology. Computer-Aided Design, 104, pp. 113-124. uri:https://doi.org/10.1016/j.cad.2018.07.003

Mattila, H. (2016). Digital fashion–how and when?. Tekstil: casopis za tekstilnu tehnologiju i konfekciju, Dubrovnik, Croatia 2-5 October 2016, pp.334-339. uri: https://hrcak.srce.hr/186569

Siersema, I. (2015). The influence of 3D simulation technology on the fashion design process and the consequences for higher education. Digital Fashion Conference, Seoul, 2015, 28 November 2015. Seoul, Korea, 28 November 2015, pp. 9-13.

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.