



## Ring spinning progression - Laboratory course Ringspinning påbyggnad - Laborationskurs

1 credits

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**Ladok Code:** AT1RG2

**Version:** 1.0

**Established by:** Committee for Education in Technology 2023-01-27

**Valid from:** Autumn 2023

**Education Cycle:** First cycle

**Main Field of Study (Progressive Specialisation):** Textile Technology (G1F)

**Disciplinary Domain:** Technology

**Prerequisites:** General entry requirements for university studies.

In addition, passing results in the following courses are required:

- Textile Overview - Fibre and yarn technology, 3 credits
- Ring spinning - Interactive laboratory course, 2 credits

**Subject Area:** Textile Technology

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

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### Content

The course aims to give the student a practical understanding of ring spinning. The introductory lectures cover the spinnability of fibres, preparatory steps to ring spinning, and the ring spinning machine. The steps in ring spinning production are carried out in the university's labs. Yarn production and subsequent evaluation tests are carried out by the student, giving a deeper understanding of the process from fibre to yarn.

### Learning Outcomes

After completing the course, the student will be able to:

#### Knowledge and understanding

- 1.1 describe how the production of the pre-yarn affects subsequent processes and the quality of the final yarn,
- 1.2 describe ring spinning in terms of its different sub-processes and how they interact,

#### Skills and abilities

- 2.1 perform ring spinning, its preparatory processes and testing of finished yarn,
- 2.2 demonstrate how different settings affect the ring-spinning process and the properties of a ring-spun yarn,
- 2.3 produce documentation on the process and its results,

#### Evaluation ability and approach

- 3.1 evaluate the spinnability of a fibre.

### Forms of Teaching

Teaching is done partly remotely through remote lectures and partly on-site in the spinning lab. Teaching is conducted in English.

The language of instruction is English.

### Forms of Examination

The course will be examined through the following examination elements:

### *Lab report*

Learning outcomes:

Credits: 0.5

Grading scale: Fail (U) or Pass (G)

### *Exam*

Learning outcomes:

Credits: 0.5

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.

Klein, W. (2018) *The Rieter Manual of Spinning - Volume 4: Ring Spinning*. Berlin: Rieter Holding.

Supplementary material is also available via the university'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 programmes. Course coordinators are responsible for ensuring that the evaluations are conducted as described above.

### **Miscellaneous**

This syllabus is a translation from the Swedish original.