Linnæus University

Jnr: 2017/1798-3.1.2.2

# Course syllabus

## Faculty of Technology

Department of Forestry and Wood Technology

## 4TS011 Teknisk försöksplanering och metodik, 7,5 högskolepoäng

## Methodology and Planning of Technical Research Projects, 7.5 credits

**Main field of study**
Forest and Wood Engineering

**Subject Group**
Other Subjects within Technology

**Level of classification**
Second Level

**Progression**
A1N

**Date of Ratification**
Approved 2017-03-20
Revised 2014-10-03 by Faculty of Technology. Change of examination.
The course syllabus is valid from autumn semester 2017

**Prerequisites**
Knowledge corresponding to English B together with a exam of 180 ECTS in a technical subject.

## Objectives

The student shall be able to:

- Express goals and limitations for research projects.
- Choose and account for different methods.
- Account for earlyer research of relevance to a specific project.
- Carry out advanced projects.
- Present results orally.
- Write scientific/technical reports.

## Content

The course includes:

- Planning of technical project
- Scientific theory
- Research methodology
- Research ethics
- Searching for references
- Writing scientific articles and report
- Oral presentation techniques

## Type of Instruction
The education is through lectures, laboratory work and exercises. For distance students, a computer with Internet access is necessary.

## Examination
The course is assessed with the grades A, B, C, D, E, Fx or F.
The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

The examination is based on exercises, submitted reports and oral exam.

## Course Evaluation
A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed.

## Credit Overlap
The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course:The course overlaps 4SE306 and 4BY063. 4TS001 Methology and planning of technical research projects, 7,5 hec

## Other
Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

## Required Reading and Additional Study Material

Björk, Lennart A. & Räisänen, Christine (2003). Academic writing: a university writing course. 3. [rev.] ed. Lund: Studentlitteratur. ISBN: 91-44-03074-6

Booth, Wayne C., Colomb, Gregory G. & Williams, Joseph M. (2008). The craft of research [electronic resource]. 3rd ed. Chicago: University of Chicago Press. ISBN: 0-226-06264-3

Chalmers, Alan F. (1999). What is this thing called science?, 3. ed. Indianapolis : Hackett Pub, cop. ISBN 0-87220-452-9

Graziano, Anthony M. & Raulin, Michael L. (2010). Research methods: a process of inquiry. 7th ed. Boston: Allyn and Bacon. ISBN: 978-0-205-63745-4

Yin, Robert K. (2009). Case study research: design and methods. 4. ed. London: SAGE. ISBN: 978-1-4129-6099-1