



Syllabus

TN0194.1 Logistics, 6.0 credits

Logistik

The course is given as course independent of study programme

Syllabus discontinued 27 November 2008

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

30 November 2006

The version applies to students admitted from autumn 2007 to autumn 2009

The version is not a module version

Subjects

Technology/Technique

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	6.0

Advanced study in the main field

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

Swedish

Prior knowledge

The equivalent of: 60 ECTS in Technique/Technology including 4,5 ECTS in System, model and simulation, 15 ECTS in Mathematics and 4,5 ECTS in Statistics.

Objectives

After successful completion of the course, the student will

- have good knowledge in analysing and solving logistic problems using operational research methods
- have good knowledge of logistic problems and their solutions in, among others, the energy sector

Content

The course includes the following parts:

Computer based solution of linear optimisation problems

Integer programming including binary and mixed problems

Operational research including

- network analysis
- transport optimisation
- localisation theory
- project planning
- inventory optimisation
- queuing theory

with application in, for example, the energy sector

Transportation technology

Transportation technology and systems special for the energy sector

Technical planning aids (GIS, GPS)

Planning of the transport systems of society

Implementation

Lectures ca 40 h

Exercises ca 20 h (compulsory)

Project with study visit ca 10 h (compulsory)

Examination

Requirements for examination

Written examination. Written and oral presentation of teamwork.

Passed in accordance with Examination above. Approved laboratory reports and participation in compulsory exercises.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Energy and Technology

Supplementary Information

Finalized by: Programutskottet för teknikutbildningarna

Replacement course: TN0123