

Scientific Methodology in Logistics

Programme course

2 credits

Vetenskaplig metodik inom logistik

TNG042

Valid from: 2017 Spring semester

Determined by

Board of Studies for Industrial
Engineering and Logistics

Date determined

2017-01-25

Main field of study

Logistics

Course level

First cycle

Advancement level

G2X

Course offered for

- Civic Logistics
- Air Transportation and Logistics

Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

Intended learning outcomes

After the course should the student be able to:

- describe and understand main concepts and methods for scientific work
- understand qualitative and quantitative methods and when they are suitable
- to criticize scientific work
- to find and critically evaluate different information sources

Course content

The lectures will among other things cover:

- Scientific approach, source criticism, reporting structure.
- Literature studies and frame of reference
- Case study methods
- Simulation methods
- Optimization methods

Teaching and working methods

The course will be through lectures. The course should be taken in conjunction with the bachelor thesis - preferably as an introduction to the project. The examination assignment should preferably cover the methodology chapter of the bachelor thesis and thus the bachelor thesis should be identified as early as possible into the course.

Examination

UPG1 Assignments 2 credits U, G

Grades are given as 'Fail' or 'Pass'.

Grades

Two-grade scale, U, G

Department

Institutionen för teknik och naturvetenskap

Director of Studies or equivalent

Erik Bergfeldt

Examiner

Anna Fredriksson

Education components

Preliminary scheduled hours: 16 h

Recommended self-study hours: 37 h

Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.