Basics in Logistics Management

Programme course

6 credits

Grundläggande logistik

TETS37

Valid from: 2017 Spring semester

Determined by
Board of Studies for Industrial Engineering and Logistics

Date determined
2017-01-25

Main field of study
Industrial Engineering and Management

Course level
First cycle

Advancement level
G2X

Course offered for
- Design and Product Development
- Industrial Engineering and Management - International, M Sc in Engineering
- Industrial Engineering and Management, M Sc in Engineering
- Mechanical Engineering, M Sc in Engineering

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.

Prerequisites
Basic course in Industrial economics.

Intended learning outcomes
After having completed the course the student shall be able to:
- Understand and describe how different logistical systems are designed.
- Understand and describe the activities that constitute the logistical systems.
- Describe and use basic concepts, models, and tools observe, chart, and describe a logistics system.
- Describe and use basic principles and models of how a logistics system interacts with the profitability of the enterprise.
- Compare and evaluate several given alternatives with regard to changes in a specific logistics system, recommend and justify one or several of these options, and clearly communicate the results of such an investigation.

Course content

- The prime unit of analysis is the single goods producing enterprise, viewed from a systems perspective.
- Central logistical activities (transports, warehousing, materials handling) and processes (supply, distribution).
- Logistics impact on profitability, by means of:
    - Costs - from a holistic perspective.
    - Delivery service - affecting the revenues.
    - Capital - reduced need by suitable logistical solutions.

Teaching and working methods

Lectures in which basic principles, models, and tools, as well as self-study cases are presented and discussed. Seminars to support group work with the cases.

Examination

UPG1	Group assignment	2.5 credits	U, G
TEN2	Written examination	3.5 credits	U, 3, 4, 5

The examination will partly be individual, partly in groups. The course grade will be based upon the results from the different parts of the examination.

Grades

Four-grade scale, LiU, U, 3, 4, 5

Other information

Supplementary courses:
Purchasing, Supply Chain Logistics, Logistics Analysis - Tools and Models, Logistics and Quality Development in Health Care

Department

Institutionen för ekonomisk och industriell utveckling

Director of Studies or equivalent

Björn Oskarsson

Examiner

Mårten Fristedt

Course website and other links

http://www.iei.liu.se/logistik/

Education components

Preliminary scheduled hours: 54 h
Recommended self-study hours: 106 h

Course literature

Additional literature

Books

Oskarsson, Björn, Ekdahl, Bengt, Aronsson, Håkan, (2013) *Modern logistik : för ökad lönsamhet*
ISBN: 9789147111268
Stockholm : Liber, 2013

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://styrdokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva.