



Logistics Support Systems

Logistiska stödsystem

7.5 credits

Ladok Code: 42I04C

Version: 1.0

Established by: Board of the department - Syllabus Committee 2011-05-20

Valid from: Autumn 2011

Education Cycle: Second cycle

Main Field of Study (Progressive Specialisation): Industrial Economics (A1N)

Disciplinary Domain: Technology

Prerequisites: Meets the requirements for acceptance for one-year master's education in logistics

Subject Area: Industrial Engineering and Management

Grading Scale: ECTS-credits

Content

The course will include the following:

- Overview of information systems within logistics
- Electronic Data Interchange (EDI) and Extended Mark-up Language (XML) route planning
- Enterprise Resource Planning (ERP)
- Track & Trace
- Customer Relationship Management (CRM) and order management systems
- Decision-making support systems
- System integration
- Product Data Management (PDM) systems
- VMI systems
- WMS warehouse management
- The transport industry's need for system support
- System support for production
- Developments within logistical system support
- Information quality factors

Learning Outcomes

After completing the course, students shall be able to:

- Explain and describe different support systems for logistics, e.g. Enterprise Resource Planning (ERP), Warehouse Management Systems (WMS) Configurators, Electronic Data Interchange (EDI)
- Evaluate and categorise information tools that support logistics operations
- Describe and account for methods and information tools for improving transport flows and effective resource management
- Analyse and evaluate the need and conditions for designing and improving information systems for logistics operations

Forms of Teaching

Lectures, seminars, computer laboratory sessions, group work and individual work.

Teaching takes place in English.

The language of instruction is English.

Forms of Examination

The course will be examined through the following examination elements:

Computer lab ass

Learning outcomes:

Credits: 0.5

Gradingscale: Fail (U) or Pass (G)

Written examination

Learning outcomes:

Credits: 2

Gradingscale: ECTS-credits

Assignments and participation in seminars

Learning outcomes:

Credits: 5

Gradingscale: Fail (U) or Pass (G)

Student rights and obligations at examination are in accordance with guidelines and rules for the University of Borås.

Literature and Other Teaching Materials

To be notified at the beginning of the course.

Student Influence and Evaluation

The head of department and the course coordinator are responsible for a continuous and systematic collection of students' views. The evaluation report is presented for the students and will be the basis for the future design of the course.

Miscellaneous