



## COURSE SYLLABUS

# Transportation and Warehousing, 7.5 credits

*Transport och lager, 7,5 högskolepoäng*

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<b>Course Code:</b> TTLN18	<b>Education Cycle:</b> First-cycle level
<b>Confirmed by:</b> Dean Apr 6, 2018	<b>Disciplinary domain:</b> Technology
<b>Revised by:</b> Director of Education Jun 28, 2022	<b>Subject group:</b> IE1
<b>Valid From:</b> Aug 1, 2022	<b>Specialised in:</b> G2F
<b>Version:</b> 4	<b>Main field of study:</b> Industrial Engineering and Management

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### Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding

- demonstrate knowledge and understanding of transport and warehouse logistics and their role in industrial operations, including knowledge of the basic concepts, methods and models and sense of current research issues
- demonstrate knowledge and understanding of the design, planning and management of material flows, focusing on transport and warehouse logistics

Skills and abilities

- demonstrate the ability to design, plan and control material flows by being able to choose and apply different methods for planning and managing inventory and transport
- demonstrate the ability to search, collect, value and critically interpret information in relevant transport and warehouse logistics
- demonstrate the ability to plan, implement, and report transport and warehouse logistics investigations

Judgement and approach

- demonstrate the ability to propose and compare options for the design, planning and control of material flows with a focus on transportation and warehousing, and assess their implications and risks
- demonstrate the ability to assess the relevant sustainability aspects of transport and warehousing
- demonstrate the ability to apply the acquired knowledge in practical work and show insight into their future profession.

### Contents

The course provides in-depth knowledge and skills in transport and warehouse logistics. The focus of the course is on methods for planning and controlling warehousing and transport

activities.'

The course includes the following elements:

- Packaging
- Warehousing and storage
- Material handling
- Modes of transport
- Transportation planning
- Routing
- Terminal handling
- Third-party logistics
- Packaging logistics
- Sustainability in transport and warehousing

**Type of instruction**

The teaching consists of lectures, case studies, seminars and project work.

The teaching is conducted in English.

**Prerequisites**

General entry requirements and completed courses worth 60 credits in first cycle including Introduction to Logistics and Materials Management, 9 credits (or the equivalent).

**Examination and grades**

The course is graded 5,4,3 or Fail.

The final grade for the course is based upon a balanced set of assessments. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Examination	3.5 credits	5/4/3/U
Seminars	1 credit	U/G
Project Work	3 credits	5/4/3/U

**Course literature**

The literature list for the course will be provided 8 weeks before the course starts.

Title: Warehousing and Transportation Logistics, 1st Edition

Author: Martin, Heinrich. (2018)

Publisher: KoganPage

ISBN: 978 0 7494 8220 6