

## COURSE SYLLABUS

### Transportation and Warehousing, 7.5 credits

*Transport och lager, 7.5 högskolepoäng*

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|--------------|--------------|----------------------|----------------------------------------------------------------------------------------|
| Course Code: | TTLN16       | Education Cycle:     | First-cycle level                                                                      |
| Confirmed:   | Oct 15, 2024 | Disciplinary domain: | Technology                                                                             |
| Valid From:  | Aug 31, 2026 | Subject group:       | Industrial Engineering and Management                                                  |
|              |              | Specialised in:      | G2F First cycle, has at least 60 credits in first-cycle course/s as entry requirements |
|              |              | Main field of study: | Industrial Engineering and Management                                                  |

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### Intended Learning Outcomes (ILO)

On completion of the 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.

### Content

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.

Language of instruction is English.

## Entry requirements

General entry requirements and taken courses worth 60 credits in first cycle including Logistics Engineering, 7.5 credits (or the equivalent).

## Examination and grades

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

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 |
|------------------|-------------|---------|
| Project Work     | 3 credits   | 5/4/3/U |
| Examination      | 3.5 credits | 5/4/3/U |
| Seminars         | 1 credit    | G/U     |

## Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

Title: *Warehousing and Transportation Logistics, 1st Edition*, Author: Martin, Heinrich. (2018), Publisher: KoganPage, ISBN: 978 0 7494 8220 6