



**LTH**  
FACULTY OF  
ENGINEERING

*Course syllabus*

# Projektlledning och forskningsmetodik inom produktion och logistik Project Management and Research Methodologies in Supply Chain Management

**MTTN85, 7,5 credits, A (Second Cycle)**

**Valid for:** 2023/24

**Faculty:** Faculty of Engineering, LTH

**Decided by:** PLED I

**Date of Decision:** 2023-04-14

## General Information

**Compulsory for:** MLOG2, MPRR2

**Elective for:** I5, M5

**Language of instruction:** The course will be given in English

## Aim

The overall purpose of the course is to provide the students with an understanding for and skills in how to organize projects and scientific studies within a supply chain management context. The course builds on previous courses and gives the students an opportunity for in-depth studies. The students obtain knowledge and insights into project management and research methodologies before taking on a group project where they focus on a chosen production or logistics area.

## Learning outcomes

*Knowledge and understanding*

For a passing grade the student must

- understand different research methodologies: where they are applied, their relative advantages and contribution to scientific knowledge
- have achieved an increased understanding for and skills in project management
- have deepened their knowledge in production and logistics in supply chain management and increased their understanding and ability to apply this knowledge
- have increased the skills in report writing and presentation techniques

#### *Competences and skills*

For a passing grade the student must

- be able to search and identify relevant scientific publications
- be able to use different research methodologies
- be able to use different techniques and models in project management
- be able to identify, describe, and analyze supply chain flows and industrial processes
- be able to report and present a supply chain project as a sound foundation for future project work and master thesis.

#### *Judgement and approach*

For a passing grade the student must

- have an ability to evaluate the relative advantages of using different research methodologies in given settings and select appropriate research methods
- have an ability to design and manage projects
- have an ability to work independently and think critically.

## Contents

The course consists of three parts. The first part deals with research methodology and different research methods.

The second part is concerned with project management and different project methods and tools. The third part is a project that is carried out in groups of approximately 4 persons. Each group shall with the aid of the supervisor select and define a project task in the production, logistics, and supply chain management domain. The course contains the following themes:

- Searching for scientific articles
- Research methodology
- Project management
- In-depth theoretical studies in the chosen area
- Report writing
- Presentation techniques

## Examination details

**Grading scale:** TH - (U,3,4,5) - (Fail, Three, Four, Five)

**Assessment:** Project work in Groups, and individual assignments. Compulsory

attendance may occur in certain parts.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

### **Parts**

**Code:** 0120. **Name:** Project .

**Credits:** 6. **Grading scale:** UG. **Assessment:** Satisfactorily completed projects.

**Code:** 0220. **Name:** Individual Assignment.

**Credits:** 1,5. **Grading scale:** UG. **Assessment:** Approved individual assignments

## **Admission**

### **Admission requirements:**

- At least two Courses in Logistics, Supply Chain Management, Production/Operations Management, Industrial Engineering and/or Operations Research

**The number of participants is limited to:** No

## **Reading list**

- A selection of relevant articles will be announced at the start of the course.

## **Contact and other information**

**Course coordinator:** Jan Olhager, [jan.olhager@tlog.lth.se](mailto:jan.olhager@tlog.lth.se)