



COURSE SYLLABUS

Lean and Green Logistics, 9 credits

Lean och grön logistik, 9 högskolepoäng

Course Code:	TLLK17	Education Cycle:	First-cycle level
Confirmed by:	Dean Feb 1, 2017	Disciplinary domain:	Technology (95%) and social sciences (5%)
Valid From:	Aug 1, 2017	Subject group:	IE1
Version:	1	Specialised in:	G1F
Reg number:	JTH 2017/431-313	Main field of study:	Industrial Engineering and Management

Intended Learning Outcomes (ILO)

After a successful course, the student shall

Knowledge and understanding

- demonstrate comprehension of lean principles and their evolution
- show familiarity with synergies between lean and sustainability issues in supply chain management
- display knowledge of sources of value creation in green logistics

Skills and abilities

- demonstrate skills of critically analyze and evaluate supply chains using value stream mapping
- demonstrate skills of evaluate alternatives for eliminating wastes in sustainable supply chains

Judgement and approach

- demonstrate an understanding of systems thinking regarding supply chains
- demonstrate the ability to evaluate wastes and plan for closed-loop supply chains

Contents

The aim of this course is to provide knowledge of lean principles in a supply chain setting. The course focuses on the nexus of the lean philosophy and sustainability in logistics and supply chain management.

The course includes the following elements:

- Principles of lean and its main tools including 5S
- Value Stream Mapping and improvement
- Time studies
- Lean and green issues in supply chain collaboration
- Business Process Management
- Systems thinking

Type of instruction

Teaching comprises of lectures, seminars and project work.

The teaching is conducted in English.

Prerequisites

General entry requirements and completed course Principles of Sustainable Supply Chain Management, 6 credits (or the equivalent).

Examination and grades

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

The final grade for the course is based on written examination and project work. The final grade will only be issued after satisfactory completion of all assessments.

Registration of examination:

Name of the Test	Value	Grading
Written examination	5 credits	5/4/3/U
Project Work	2 credits	5/4/3/U
Seminars	2 credits	U/G

Course literature

The literature list for the course will be provided one month before the course starts.

Course literature

Title: The Toyota Way: 14 Management Principles from the World's Greatest Manufacturer

Author: Jeffrey K. Liker (2004)

Publisher: McGraw-Hill

ISBN: 978-0-07-143563-5 (e-book), 978-0-07-139231-0 (printed version)

Title: Lean supply chain and logistics management

Author: Paul Myerson (2012)

Publisher: McGraw-Hill

ISBN: 978-0-07-176627-2 (e-book). ISBN: 978-0-07-176626-5 (printed version)

Reference literature

Title: This is Lean, resolving the efficiency paradox,

Author: Niklas Modig & Pär Åhlström (2016)

Publisher: Rheologica publishing, Stockholm.

Title: Lean and Green, profit for your workplace and the environment

Author: Pamela J. Gordon (2001)

Publisher: Berret-Koehler Publishers, Inc. San Francisco.