



DRL001 History of Logistics - PhD Course

- **Credits: 5 ECTS**
- **Time: Week 19, 6 to 10 May 2019**
- **Place: Molde University College, Room A-2.005**
- **Application deadline: 1 April 2019**
- **Application form: <https://skjema.uio.no/applicationdrl001>**



Objectives

The main purpose of this course is to give an overview of the development of logistics through time. Some topics like purchasing, transportation, inventory theory, vehicle routing, and production theory will be highlighted. You could find more about the course content here:

<https://www.himolde.no/english/studies/courses/log/2019/spring/drl001.html>

The course is free of charge for all PhD students. HiMolde PhD students will be given preference if there is a need to restrict student numbers.

Time:

- All lecture days will start at 09:15.
On Tuesday, Wednesday and Friday, lectures last for 6 academic hours, plus a one hour lunch break. These days lectures will finish at 16:00 hours.
- On Monday there will be 7 hours of lecturing, which means that the lecture finish at 17:00 hours.
- On Thursday the total lecturing time is 5 hours, which means that lecturing will end at 15:00 hours that day

Attendance: It is mandatory to participate during the whole week and attending all given lectures.

Evaluation: The participants should submit a paper concerning one of the treated topics. The date of submitting this paper will be 15 September 2019. Other practicalities concerning the paper will be given during the course.

Grades: The grades will be Pass/Fail.

Teaching material: In Canvas you will find a room called DRL001. In due course, you will find Power Point presentations and other materials that are needed for the course.

Module leader: Professor Asmund Olstad, tel: 93410122

Contact person: Øystein Nerland: oystein.nerland@himolde.no

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DRL001 May 2019, Detailed schedule:

Monday 6 May 09:15 – 12:00

Introduction by Professor Øyvind Halskau

This section will give an introduction to the history of logistics in general, starting from the middle of 18th century until today. The main focus will be on the change in supply chains over the centuries due to changes in technologies, needs of the societies, and market situations.

Monday 6 May 13:15 – 17:00

The History of Inventory Theory by Professor Arild Hoff

This history will start from early last century and show the highlights of research during the last 100 years. When and how did it start, when was stochastic problems introduced, when was discount introduced and so on.

Tuesday 7 May 09:15 – 16:00

History of Vehicle Routing and Distribution by Professor Gilbert Laporte

This section will start with some early results in routing going back to 18th century and then highlighting the development of the Travelling Salespersons problem, Vehicle routing problems and Arc routing problems from the middle of the last century until today.

Wednesday 8 May 09:15 – 16:00

History of Production Logistics by Professor Mikhail Kovalyov

The main focus of this section concerns the history and development of optimization techniques and how these techniques are used in combination with better developed computers and software to solve practical problems in production logistics and workforce planning.

Thursday 9 May 09:15–11:00

Transport and location theory by Ass. Professor Olav Hauge

Thursday 9 May: 12:15 – 15:00

History of Purchasing by Professor Arnt Buvik

The development of theoretical perspectives on industrial marketing, industrial purchasing and business-to-business relationships. An overview over the development of significant research contributions and theoretical frameworks within industrial purchasing and business-to-business marketing, including industrial marketing and buying behavior, inter-organizational issues in buyer-seller relationships and the network approach of inter-firm business.

Friday 10 May: 09:15 – 16:00

The Development of Transport Infrastructure Assessment by Associate Professor Johan Holmgren

The issue at stake will be how the economic impact assessment of transport infrastructure assessment has been developed.

Exam paper DRL001, May 2019

When the course program is finished, all participants are required to write up an exam paper.

The students have to write up "a review article" related to one of the main topics of the course:

1. Distribution and Routing Planning
2. Production Planning
3. Purchasing Management
4. Inventory Theory
5. Transport Economics
6. Supply Chain Management

The frame of reference for this paper is the journal articles picked for the actual topics, the lectures/lecture notes, your own literature search and your own learning during the course.

The paper shall address and consider the establishment and development of the main theoretical frameworks and research problems within the selected topic. You are free to position your paper more precisely within this "research scope".

The exam paper should comprise 15–20 pages and is to be sent by e-mail to professor Asmund Olstad (asmund.olstad@himolde.no) for grading within **15 September 2019**.

The exam papers will be reviewed by the course instructors and assigned the grade "pass" or "not pass".

Papers which do not meet the required academic level, will have to be revised and resubmitted.