Linnæus University

Dnr: LNU-2024/2071

Course syllabus

School of Business and Economics
Department of Management

2FE097 Bachelor course in Supply Chain Management I, 30 högskolepoäng
Bachelor course in Supply Chain Management I, 30 credits

Main field of study
Business Administration

Subject
Business Administration

Level
First cycle

Progression
G2F

Date of Ratification
Approved 2020-06-24.
Revised 2024-05-27. Literature revision.

The course syllabus is valid from autumn semester 2024.

Prerequisites
120 credits, of which 60 credits within Business Administration on G1N and G1F level, or the equivalent. English 6, or the equivalent.

Objectives

Module 1: Business Logistics, 7.5 credits
After completing this module the student should be able to:

- account for logistics as an approach and the impact from logistics on company profitability, efficiency and sustainable development
- apply total cost analysis, inventory management and customer service

calculations and interpreting and assessing the results
- formulate a research question, search, gather and scrutinize theory within a limited theory area together with analyzing, interpreting and presenting (written and orally) the findings

Module 2: Production Management, 7.5 credits
After completing this module the student should be able to:

- explain the key production management decisions on strategic, tactical and operational level and the influence these have on the logistics system and in society at large
- search for, select and use the appropriate data to make these types of production management decisions

Module 3: Logistics Quality and Process Management, 7.5 credits
After completing this module the student should be able to:

- account for basic concepts in quality and quality management
- apply quality tools and models for customer satisfaction in a logistics perspective
- explain the impact of process orientation and process management for the development of logistics systems
- conduct process mapping and quality measuring in a limited area, identify and analyze quality deficiencies and critically discuss improvement suggestions

Module 4: Purchasing and Supply Chain Management, 7.5 credits
After completing this module the student should be able to:

- discuss and contextualize knowledge of purchasing, materials supply and sustainability
- apply models for purchasing
- perform quantitative purchasing analyses
- account for the basics of supply chain management
- analyze and discuss supply chain integration

Content

Module 1: Business Logistics, 7.5 credits
The module contains:

- logistics as an approach and a strategy; definitions and concepts, history, strategies and organisation
- distribution and delivery service; delivery service elements, differentiation, channels of distribution, Supply Chain Management
- materials- and production management; planning environment, methods of material planning
- purchasing and supply; importance of purchasing, purchasing roles and strategic purchasing
- quantitative logistics models; total cost analysis, inventory management and service levels

Module 2: Production Management, 7.5 credits
The module contains:

- forecasting methods; qualitative and quantitative
- material planning and production control; techniques and methods for planning

and managing material flows in different planning horizons and production environments; methods with particular focus are master production scheduling, order planning, capacity planning and operation planning
- methods for lot sizing with limited capacity, variable demand, periodic/continuous inspection
- manufacturing process types and related generic production layouts

Module 3: Logistics Quality and Process Management, 7.5 credits
The module contains:

- quality management - central concepts, approaches to continuous improvement, quality measurements and quality tools
- quality systems - the ISO9000/ISO9000:2000 series, quality management principles
- customer satisfaction - importance, measurement methods
- process management - central concepts
- development of processes - process mapping, process design, control and improvement

Module 4: Purchasing and Supply Chain Management, 7.5 credits
The module contains:

- sustainability, corporate social responsibility and ethics in a purchasing/procurement context
- the roles and objectives of purchasing, its strategic importance
- purchasing strategies, principles and models
- the purchasing process
- public procurement
- quantitative purchasing analysis
- supplier evaluation and supplier development
- the organisation of purchasing
- supply chain management

Type of Instruction

Module 1: Business Logistics, 7.5 credits
The teaching consists of lectures.

Module 2: Production Management, 7.5 credits
The teaching consist of lectures, exercises, cases, laboratory work and field visits.

Module 3: Logistics Quality and Process Management,7.5 credits
The teaching consists of lectures, group assignments, tutorial meetings and seminars.

Module 4: Purchasing and Supply Chain Management, 7.5 credits
The teaching consists of lectures, tutoring and exercises. The module requires access to a computer with internet connection and a webcam.

Examination

The course is assessed with the grades A, B, C, D, E or F.

Module 1: Business Logistics, 7.5 credits
The module is examined through an individual written examination 4.5 credits, individual oral business games 1 credits, a group written assignment including seminars

2 credits.

Module 2: Production Management, 7.5 credits
The module is examined through a written examination 5.5 credits and a laboration 0.5 credits and a group assignment 1.5 credits.

Module 3: Logistics Quality and Process Management, 7.5 credits

The module is examined through an individual written examination 5 credits, paper in a group with written and oral presentation 2,5 credits and a individual written assignment and seminar 0.5 credits.

Module 4: Purchasing and Supply Chain Management, 7.5 credits
The module is examined through an individual written examination 3 credits, a written group assignment 2 credits and a group-based computer laboration with associated project report 2.5 credits.

The following applies to all modules:

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

The grade of the course is a combined assessment from the grades of the various course modules. The combined assessment is based on the grades and the scope of the course (30 credits). The more extensive a module is, the greater impact it will have on the final grade. Module grades with the grading scale between G-U will not be considered into the combined assessment. However, a G is required for each of the modules in order to receive a final course grade.

Resit examination is offered in accordance with Linnaeus University's Local regulations for courses and examination at the first- and second-cycle levels.

In the event that a student with a disability is entitled to special study support, the examiner will decide on adapted or alternative examination arrangements.

Course Evaluation

A course evaluation should be conducted during the course or in connection with its conclusion. The results and analysis of the completed course evaluation should be promptly communicated to students who have completed the course. Students participating in the next course instance should be informed of the results of the previous course evaluation and any improvements that have been made, no later than at the start of the course.

Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course:
Module 1: 1FE195, 1FE800 and 2FE078:1 with 7.5 credits each.
Module 2: 2FE049:2 and 2FE078:2 with 7.5 credits each. 2FE011, 2FE035:2, 2FE070:2, 2FE084:2, 2FE097:2 and 2FE211 with 6 credits each.
Module 3: 2FE012, 2FE035:3, 2FE070:3, 2FE084:3, 2FE097:3 and 2FE212 with 6 credits each.
Module 4: 2FE049:4 and 2FE087:4 with 7,5 credits each. 2FE213, 2FE084:4, 2FE056, 2FE035:4, 2FE070:4, 2FE078:4, 2FE097:4 and 2FE216 with 6 credits each.

Required Reading and Additional Study Material

Module 1: Business Logistics, 7.5 credits
Required reading
Jonsson, P.*Logistics and Supply Chain Management* McGraw-Hill. Latest edition. About 540 pages.

Reference literature
Krajewski, Lee J. Malhotra, Naresh K. Ritzman, Larry P. *Operations Management: Processes and Supply Chains,* (Global Edition). Pearson Education Limited. Latest edition. About 600 pages.

Module 2: Production Management 7.5 credits
Required reading
Nahmias, S. & Lennon Olsen, T. *Production and Operations Analysis*. Waveland Pr Inc. Latest edition. About 800 pages.

Reference literature
Krajewski, Lee J. Malhotra, Naresh K. Ritzman, Larry P. *Operations Management: Processes and Supply Chains,* (Global Edition). Pearson Education Limited. Latest edition. About 600 pages.

Module 3: Logistics Quality and Process Management 7.5 credits
Required reading
Krajewski, Lee J. Malhotra, Naresh K. Ritzman, Larry P. *Operations Management: Processes and Supply Chains,* (Global Edition). Pearson Education Limited. Latest edition. About 600 pages.

Scientific articles. About 300 pages.

Module 4: Purchasing and Supply Chain Management 7.5 credits
Required reading
Monczka, R.M., Handfield, R.B., Giunpero, L.C., Patterson, J.L. & Waters, D. *Purchasing and Supply Chain Management.* Cengage Learning EMEA. Latest edition. About 530 pages.

Scientific articles as advised by the course coordinator. About 200 pages.