Linnæus University

Jnr: 2018/2782-3.1.2.2

Course syllabus

School of Business and Economics
Department of Management Accounting and Logistics

2FE087 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 Group
Business Administration

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved 2017-11-15
Revised 2018-11-28 by School of Business and Economics. Literature revision.
The course syllabus is valid from autumn semester 2019

Prerequisites
A minimum of two years of successfully completed University studies (120 credits) including 60 credits in Business Administration. English B/English 6.

Objectives

Module 1: Business Logistics, 7.5 credits
On completion of the module, the student is expected to be able to:

- account for logistics as an approach and its sub-systems (material supply, production and distribution)
- explain the impact from logistics on company profitability, efficiency and sustainable development
- apply total cost analyses, basic inventory management and customer service calculations together with interpreting and assessing the results
- formulate a research question, search, gather and scrutinize theory within a limited theoretical area together with analyzing, interpreting and presenting (in written form and orally) the findings

Module 2: Production Management, 7.5 credits
On completion of the module, the student is expected to 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

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Module 3: Industrial Organisation and Management,7.5 credits
On completion of the module, the student is expected to be able to:

- discuss and take up a position on modern aspects of industrial organization and management
- account for and have a deepened insight into differing concepts of industrial organization and management related to the field of supply chain management
- explain the role of inter-organizational networks in relation to supply chain management
- investigate and analyse organizational and managerial consequences of a flow oriented work organization
- apply theoretical concepts related to the field of industrial organization and management on different industries for analyzing problems and provide solutions based on case-studies

Module 4: Purchasing and Supply Chain Management, 7.5 credits
On completion of the module, the student is expected to 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 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
- logistics efficiency; reduction of uncertainty, lead times and capital, postponement etc.
- quantitative logistics models; total cost analysis and inventory management

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 Industrial organization and Management 7.5 credits
The module contains:

- the modern and changing contexts for organizing
- concepts of industrial organization and management related to the field of supply chain management
- virtual corporations
- process management
- working in and with networks especially in relation to supply chain management
- consequences of flow oriented work organization
- case-studies

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

- sustainability in a purchasing / procurement context - ethics, CSR and codes of conduct
- the roles and objectives of purchasing, its strategical importance
- purchasing strategies, principles and models
- the purchasing process
- public procurement
- quantitative purchasing analysis
- supplier evaluation and supplier development, network thinking
- the organisation of purchasing
- computer laborations
- 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 consists of lectures and exercises. Cases, laboratory sessions and field visits are also part of the course.

Module 3: Industrial Organisation and Management,7.5 credits
The teaching consists of lectures and seminars where case studies are discussed. The seminars are mandatory.

Module 4: Purchasing and Supply Chain Management, 7.5 credits
The teaching consists of lectures, seminars and field visit.

Concerning all modules:
Obligatory parts are stated in the schedule.

Examination

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

Module 1: Business Logistics, 7.5 credits
The course is assessed by means of written exam, laboratory session and case assignment.

Module 2: Production Management, 7.5 credits
The course is assessed by means of an individual written exam and a group assignment.

Module 3: Industrial Organisation and Management,7.5 credits

The course is assessed by means of individual written assignments and group discussions in seminars and hand-in of papers written in group.

Module 4: Purchasing and Supply Chain Management, 7.5 credits
The course is assessed by means of individual written exam, written group assignment and computer laboration.

Concerning 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.

After each regular examination there will be at least one new examination in close proximity to the date the results of the regular exam were posted. Students who are close to the passing grade of reports can complement after instructions and time-frame given by the examiner to obtain a pass grade.

Grading criteria for the A–F scale are communicated in writing to the student by the start of the module at the latest.

Course Evaluation
During the implementation of the course or in close connection to the course a course evaluation is to be carried out. Result and analysis of the course evaluation is to be presented as feedback both to the students who have completed the course and to the students who are to participate on the course the next time it is offered. The course evaluation is to be carried out anonymously.

Credit Overlap
The course cannot be included in a degree along with the following courses of which the content fully, or partly, corresponds to the content of this course: The course cannot be included in a degree along with the following courses of which the content fully, or partly, corresponds to the content of this course:
The course overlaps 2FE049 and 2FE078 with 100 %.
Also, two of the modules overlaps as follows:
Module 2 overlaps 2FE211, 2FE011, 2FE035:2 and 2FE070:2 with 6 credits each.
Module 4 overlaps 2FE213, 2FE056, 2FE216, 2FE035:4, 2FE070:4 and 2FE084:4 with 6 credits each.

Other
Degree-seeking students, aiming towards achieving an undergraduate degree, are expected to complete this course and the next course 'Bachelor course in Supply Chain Management II, including Degree Project' at Linnaeus University. These two courses combined with a minimum of 120 credits of previous studies, out of which at least 60 credits in Business Administration and 30 credits outside of Business Administration, might make the student eligible for an undergraduate degree. All students have to apply for a degree upon completion of their studies, and their degree application is evaluated in relation to the local degree regulations at Linnaeus University.

Required Reading and Additional Study Material
List of references Module 1 - Business Logistics 7.5 credits
Required reading
Jonsson, P. *Logistics and Supply Chain Management* McGraw-Hill. Latest edition. About 540 pages.

List of references 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.

List of references Module 3 - Industrial organization and Management 7.5 credits

Required reading
Scientific articles as advised by the course coordinator. About 500 pages.

List of references 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.