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35C04000 Global Logistics and Distribution Networks (6 cr)

Responsible teacher: Markku Tinnilä

Status of the Course:

Bachelor's programme, Specialization area in Information and Service Management, elective

Minor in supply chain management

AALTO course

Level of the Course: Bachelor's level

Teaching period: Period IV (2018-2019) Otaniemi campus Period IV (2019-2020) Otaniemi campus

Workload: Sessions 24h

Independent work 133h

Exam 3h

Total 160h (6 ECTS)

Learning Outcomes: Globalisation of industries and commerce has changed most businesses from local players to international ones with corresponding challenges in their logistics and supply chains. The objective of the course is to develop student understanding of global and domestic logistics systems including the variety of logistics and transportation services in a sustainable economy. The student will understand basic concepts related to logistic infrastructure and services, transport modal choices and distribution structure alternatives, the role of warehousing and different international trade documents.

Content: The main concepts and topics of the course include definitions of logistics, supply chains and other key concepts, logistics applications, distribution networks and structures, transport and transport modes, warehouses and warehouse operations, logistics services and logistics service providers, delivery operations and transport & trade documents and forwarding.

Assessment Methods and Criteria: Cases 30%

Exam 70%

Study Material: John Mangan, Chandra L. Lalwani, Global Logistics and Supply Chain Management, 3rd Edition, 2016

ISBN: 978-1-119-11782-7

(soveltuvun osin)

Substitutes for Courses: Substitutes a previous course: 35C00100 Distribution and Logistic Services. Student can only take one of these two courses.

Prerequisites: Recommended: 35A00310 Tuotantotalouden perusteet

This course is recommended also for Exchange students

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

35E03000 Sustainable Supply Chains (6 cr)

Responsible teacher: Katri Kauppi

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Supply Chain Management

Minor in Information and Service Management AALTO course

Level of the Course: Master's level course

Teaching period: Period I (2018-2019) Töölö campus Period I (2019-2020) Otaniemi campus

Workload: Contact teaching 24 h

Independent work 133 h

Exam 3 h

Learning Outcomes: The course is intended to provide an overall understanding of the triple bottom line i.e. economic, environmental and social sustainability in the context of supply chains. Students will understand the various ways in which environmental and social sustainability strategies and practices can be incorporated into different stages of a supply chain, and how these will impact supply chain (economic) performance. The course will also provide insights on the challenges related to the implementation issues in supply chain sustainability for organizations as well as for some key industries.

Content: The course topics include the triple bottom line in supply chain context, benefits of sustainability in supply chains, environmental issues in purchasing and supply, sustainability in logistics, social sustainability in supply chains, sustainability certifications and implementation issues. Both organization and industry perspectives are discussed on the course.

Assessment Methods and Criteria: 40% Exam

60% Assignments

Study Material: Course book:

Sustainable Logistics and Supply Chain Management: Principles and Practices for Sustainable Operations and Management, 2nd Edition by David B. Grant, Chee Yew Wong and Alexander Trautrim. Kogan Page Ltd. 2017.

ISBN-13: 978-0749478278

ISBN-10: 0749478276

Several academic articles will also be included in the study material, details will be given in the syllabys.

Prerequisites: Recommended Tuotantotalouden perusteet 35A00310 or similar principles of operations management course

Evaluation: 0-5

Registration for Courses: Via WebOodi.

Language of Instruction: English.

Further Information: In minimum 15 students are required for the course to be organized.

35E02000 Procurement and Strategic Sourcing (6 cr)

Responsible teacher: Katri Kauppi

Status of the Course: Master's Programme in Information and Service Management, elective
Information and Service Management minor
Supply Chain Management minor

Level of the Course: Master's level course

Teaching period: III Spring (2018-2019) Otaniemi campus III Spring (2019-2020) Otaniemi campus

Workload: Contact teaching 36 h

Independent and group work 124 h

Learning Outcomes: After the course you will possess a set of skills and knowledge that qualifies you for sourcing, purchasing and supply management jobs such as buyer, sourcing specialist, and procurement analyst. You are able to compare alternative sources of supply, develop holistic purchasing processes, and build tools for daily operative management. You also understand the impact of purchasing and supply management on firm performance.

Content: The course topics include sourcing strategy and procurement/sourcing impact on performance, purchasing category strategies and management, cost and spend analysis, supplier selection, outsourcing, supplier relationship management, purchasing organization and processes as well as sourcing of services.

Assessment Methods and Criteria: 100% Assignments

Study Material: Course book:

Sourcing Portfolio Analysis: Power Positioning Tools for Category Management & Strategic Sourcing, by Andrew Cox. 2014. Earlsgate press.

ISBN-10: 1873439547

ISBN-13: 978-1873439548

Collection of articles and reports.

Substitutes for Courses: This course replaces the earlier Bachelor's level course kurssi 35C00200 Purchasing and Supply Management (35C00250 Hankintojen johtaminen), you can only take one of these courses.

Prerequisites: Recommended: 35A00310 Tuotantotalouden perusteet

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

Further Information: Please note some of the sessions may have compulsory attendance.

35E00400 Coordination of Supply Chains (6 cr)

Responsible teacher: N.N

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Supply Chain Management

Minor in Information and Service Management

Level of the Course: Master's level course

Teaching period: Period V (2018-2019) Otaniemi campus Period V (2019-2020) Otaniemi campus

Workload: Sessions 36h

Independent work 121h

Exam 3h

Total 160h (6 ECTS)

Learning Outcomes: During this course the student will build a solid understanding of supply chain management theories, and learn to assess critically different methods and models developed for managing and coordinating complex demand-supply networks. After the course the student is equipped to evaluate literature for academic research work.

Content: Main topics of the course are supply chain integration and coordination as well as collaboration models. This will cover the value of information, supply chain optimization, flexibility principles, contracting and incentive alignment.

Assessment Methods and Criteria: Assignments 30%

Class participation 30%

Exam 40%

Study Material: Collection of articles and reports

Course Homepage: <https://mycourses.aalto.fi/course/search.php?search=35E00400>

Prerequisites: Prerequisites: basic knowledge of operations management and supply chains

Strongly recommended 1 or several of the following:

Sustainable Supply Chains

Procurement and Strategic Sourcing,

Process Analysis and Management

Quality and Performance Management

Sales and Operations Planning

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

Further Information: Minimum number of 15 students must register for the course to be organized.

Students majoring or minoring in ISM/SCM are given priority.

Please note the course has sessions for which attendance is compulsory.

35E00750 Logistics Systems and Analytics (6 cr)

Responsible teacher: Markku Kuula

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Supply Chain Management

Minor in Information and Service Management AALTO course

Level of the Course: Master's level course

Teaching period: Period I (2018-2019) Töölö campus Period I (2019-2020) Otaniemi campus

Workload: Contact teaching 36 h

Independent work 121 h

Exam 3h

Learning Outcomes: After the course, you will know how the logistics system operates in various sectors and how information systems and analytics provide a competitive advantage for different companies. The course gives you the capability to work in a variety of management, expert and analytical tasks in logistics systems and you learn to understand different warehousing technologies, infrastructure solutions as well as air, sea, rail and road transportation operations. These issues are considered from both the passenger and freight points of view. In addition, you understand how to apply digital logistics tools to in a business.

Content: The course topics include warehousing technologies, automated warehousing, air, train and truck logistics/transportation, and port and terminal operations as well as systems from technology perspective. The course also deals with infrastructure and transportation issues from a policy perspective and it further addresses issues related to digital logistics and analytics.

Assessment Methods and Criteria: Assignments 60 %

Exam 40%

Study Material: Collection of articles and reports

Prerequisites: Recommended 35A00310 Tuotantotalouden perusteet or equivalent course

Recommended 35C04000 Global Logistics and Distribution Networks

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

Further Information: Please note some of the assignments may include compulsory attendance.

35E00350 Sales & Operations Planning (6 cr)

Responsible teacher: N.N

Status of the Course:

Master's programme in Information and Service Management

Supply Chain Management Minor

Information and Service Management Minor

Level of the Course: Master's level course

Teaching period: Period IV (2018-2019) Otaniemi campus Period IV (2019-2020) Otaniemi campus

Workload: Sessions 48h

Independent work 112h

Learning Outcomes: After this course the student will master advanced inventory management methods and operations planning principles. The student is able to apply common forecasting techniques for supply chain planning. In addition, the student understands the dynamic of sales and operations planning (S&OP) and is able to facilitate such a cross-functional process in manufacturing and service companies.

Content: Main topics include supply chain processes, S&OP process, financial and information sharing theories, planning and control framework, and supply chain planning software. In this course, planning and control framework covers demand forecasting, manufacturing planning, inventory management, shop floor control and order management.

Assessment Methods and Criteria: Assignments 80%

Class participation 20%

Study Material: Collection of articles and relevant book chapters

Prerequisites: Prerequisites: basic knowledge of operations management and supply chains

Strongly recommended 1 or several of the following:

Sustainable Supply Chains

Procurement and Strategic Sourcing,

Process Analysis and Management

Quality and Performance Management

Decision Making and Choice Behavior

Business Decisions 2

Evaluation: 0-5

Registration for Courses: Via WebOodi.

Language of Instruction: English

Further Information: In minimum 15 students are required for the course to be organized.

Priority is given to students majoring in ISM and minoring in SCM or ISM.

35E00800 Intellectual Property Rights (6 cr)

Responsible teacher: Markku Kuula

Status of the Course: Master's programme in Information and Service Management programme, elective Yritysjuridiikan maisteriohjelman, valinnainen

Level of the Course: Master's level course

Teaching period: II Autumn (2018-2019) Töölö campus II Autumn (2019-2020) Otaniemi campus

Workload: Course teaching 24

Independent Work 127h

Exam 3h

Learning Outcomes: The objective is to equip the student with the necessary tools to evaluate the strategic importance of intellectual property and the various means to protect it, as well as ways to generate revenue from intellectual property, such as licensing.

Content: Much of the value of corporations and entire economies depend on intangible assets and their protection by intellectual property rights (IPR, IPRs). The course covers the core types of IPRs and their basic features (e.g. copyright, designs, trademarks and patents) from both a legal and a law and economics perspective. The course discusses traditional legal approach to IPRs, as well as a law and economics model of argumentation. Both legal requirements for protection of IPRs and law and economics aspects, including behavioural law and economics, are discussed through out the course.

Assessment Methods and Criteria: Assignment: 20%

Exam: 80%

Study Material: Charlotte Waelde, Abbe Brown, Smita Kheria, and Jane Cornwell, Contemporary Intellectual Property - Law and Policy, Fourth Edition, Oxford University Press, July 2016

Nicola Searle and Martin Brassell, Economic Approaches to Intellectual Property, Oxford University Press 2016

Course Homepage: <https://mycourses.aalto.fi/course/search.php?search=35E00800>

Evaluation: 0-5

Registration for Courses: Via WebOodi.

Language of Instruction: English

35E00550 Quality and Performance Management (6 cr)

Responsible teacher: Markku Kuula

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Supply Chain Management

Minor in Information and Service Management AALTO course

Level of the Course: Master's level course

Teaching period: II Autumn (2018-2019) Töölö campus II Autumn (2019-2020) Otaniemi campus

Workload: Contact teaching 36 h

Independent and group work 124 h

Learning Outcomes: Business success depends on a company's ability to produce products and services to match customers need. The aim of this course is to familiarize students with concepts and methods in quality and performance management. Further, students will understand the role of quality in related to all processes and products/services of a company, and to understand that better quality products/services and processes enhance the company's performance and thus improve the company's profitability.

Content: The main concepts and topics of the course include definitions of quality and performance management, total quality management, lean, six sigma, statistical process control, and different quality certificates. Those who pass the course will also receive Lean Six Sigma Yellow Belt certification.

Assessment Methods and Criteria: Cases and assignments 100% including Lean Six Sigma Yellow Belt certification which must be passed.

Study Material: H.S. Gitlow, R. J. Melnyck, and D. M. Levine, A Guide to Six Sigma and Process Improvement for Practitioners and Students: Foundations, DMAIC, Tools, Cases, and Certification (2nd Edition) 2015

ISBN- 10:0133925366 (soveltuvin osin)

and a collection of articles

Substitutes for Courses: Substitutes a previous course: 35E00500 Quality Leadership. Student can only take one of these two courses.

Prerequisites: Recommended 35A00310 Tuotantotalouden perusteet or equivalent course

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

35E00650 Quantitative Models in SCM/OM (6 cr)

Responsible teacher: N.N

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Supply Chain Management

Minor in Information and Service Management AALTO course

Level of the Course: Master's level course

Teaching period: TBC, course taught by visiting professors only

Workload: This course is lectured by a visiting professor. The split of the workload may vary, but will include contact teaching, independent work and an exam.

Learning Outcomes: The course is lectured by a visiting professor, and more detailed learning outcomes will be detailed in the course syllabus. Overall, the course provides students with an ability to use various quantitative techniques and methods to solve operations and/or supply chain related problems.

Content: The course covers several quantitative methods in operations and/or supply chain management. The course is lectured by a visiting professor, and detailed topic areas will be disclosed in the syllabus only.

Assessment Methods and Criteria: Exam 40%

Assignments 60%

Study Material: A selection of book chapters and articles determined by visiting professor

Evaluation: 0-5

Registration for Courses: Via WebOodi

Language of Instruction: English

Further Information: A minimum of 8 students must be registered for the course to be organized.

35E08000 Service Business Models (6 cr)

Responsible teacher: Markku Tinnilä; Matti Rossi

Status of the Course: Master's Programme in Information and Service Management, elective
Minor in Information and Service Management

Minor in Supply Chain Management

CEMS course AALTO course

Level of the Course: Master's level course

Teaching period: Period V (2018-2019) Otaniemi campus Period V (2019-2020) Otaniemi campus

Workload: Sessions 32h

Independent work 125 h

Exam 3h

Learning Outcomes: The objective of the course is to provide the students with an in-depth understanding of managing a service, product or software development and launch, as well as, the management and business models connected to services and products.

The course discusses the life-cycle of a software venture, including product idea, founding a company, and acquiring risk financing. Furthermore, the focus is on recognizing, analyzing and choosing the alternative business models for the product or service, with a special emphasis on digital goods and bundles consisting of software and connected services.

Different types of business models are analyzed for their competitive advantage, as well as, earning and pricing models with pertinent distribution channels. Cases and examples are used to illustrate the opportunities in creating novel business models in services. The students are expected to actively participate in the group works and presentations.

Content: The core content of the course includes the main models, tools and concepts of business models, value propositions, service design, pitching skills, innovation management, ICT-enabled new business models and services, and platforms of IT-based business.

Assessment Methods and Criteria: Case and case presentation/pitching 50%

Exam 50%

Study Material: Afuah, Allan; "Business models: A strategic management approach", McGraw-Hill, 2004, ISBN 0-07-288364-2

Collection of articles

Course Homepage: <https://mycourses.aalto.fi/course/search.php?search=35E08000>

Prerequisites: 37E00100 Information Economy

Evaluation: 0-5

Registration for Courses: via WebOodi, max. 70 students

Language of Instruction: English

Further Information: Maximum number of students admitted is 70. In case needed, priority is given to:

1. ISM MSc students
2. ISM/SCM minor students
3. Other BIZ students
4. Other Aalto students