

ISM-E3002 – Capstone: Future-proofing supply chains

6 ECTS

SYLLABUS version 05.01.2023

Minor changes are possible pending case detail finalization with case companies.

Instructor's contact information	Course information
Katri Kauppi katri.kauppi@aalto.fi T208, Ekonominaukio 1 Available for on campus, and Teams / zoom meetings https://people.aalto.fi/katri.kauppi	Information and Service Management master's programme capstone/elective 2022-2023, Spring, period III On campus module Language of Instruction: English Course Website https://mycourses.aalto.fi/course/view.php?id=36976

1. OVERVIEW

The course is a mixture of lectures, workshops and group-based project work. Students are given an understanding of some of the megatrends impacting supply chains in the future (e.g. climate change) and provided tools to design strategies for supply chains of the future. These tools include for example scenario-based thinking and risk management tools. Students will work on a real company case, where they are also expected to actively search for data and information from external sources to understand the context of the case organization more broadly.

2. PREREQUISITES

We recommend students to have taken some prior studies in SCM/logistics/operations management before attending this course.

3. LEARNING OUTCOMES

This capstone course is a real case/project-based course intended to help students understand what are the major external challenges, opportunities and risks to supply chains in the future. Key megatrends to be included are for example climate change, geopolitical issues and digitalization. At the end of the course, students are prepared to analyse supply chain risks and opportunities in light of these megatrends and can design surviving and winning supply chain strategies for the future. The course is aligned with Aalto strategy by promoting radical creativity and sustainable solutions.

4. ASSESSMENT, GRADING, EXAM FEEDBACK

Project report proposal	10%
Final project presentation	20%
Final project report	70%

Each student will be working on 1 case only. There are three case companies: Reima, Meluton and Fazer. The overview of each case assignments is available in the respective sections of the

Mycourses site. The detailed materials will be delivered directly to the groups working on that case during the case workshop after the signing of non-disclosure agreements with the case company.

Group work is done in groups of 3-5 students. Groups will be allocated by the course teacher on the first lecture but students get to express their preferences regarding the case companies through a survey run in Mycourses. Please fill in the pre-survey by the 9th of January.

Detailed instructions for the project proposal, presentation and final report can be found under the “Instructions on course assignments” section in mycourses. All assignments are submitted via Mycourses.

Each assignment is graded on a 0-100 scale, and written feedback will be provided to groups on their performance. As per school rules for capstone courses, one assignment, the Final project report, will be graded with the MSc capstone grading rubric. The rubric is available with the final project instructions, please familiarize yourself with the rubric before submitting your assignment.

Participation in class is mandatory given the case-like nature of the course. If you are unable to participate in some of the sessions, please contact teacher immediately. Also please note there are class sessions only on weeks 1, 2 and 6 of the teaching period, in between there is group work only plus meetings with teacher/case company for guidance. See detailed schedule at end of syllabus, and note not all sessions are for all students, as some sessions are case-specific and thus only for the students assigned to that case company.

To motivate equal contribution from group-members and tackle free-riding behavior in groups, each group member will be asked to fill in a peer-evaluation form (only visible to teacher, not the group members) of all group members’ inputs in the group work. If forms clearly suggest an unequal contribution to groupwork, with a particular member not contributing (or contributing much more than others), that individual’s grade can be decreased or increased by maximum of 1 grade (on the scale of 1-5).

5. READINGS

The readings are provided to help you with your project work, but you are also expected to conduct your own searches of academic articles, industry reports and white papers to help you in your analysis and recommendations for the project work.

A recommended readings and material list will be provided separately for each of the three cases. The reading list for each case assignment is provided in the specific case section of Mycourses.

6. SCHEDULE (see next page)

The course is held on site and given the project and group work nature of the course, participation in class is mandatory (if you are unable to participate to some of the sessions, please contact the teacher immediately to discuss options).

Please note: those sessions in GREY background are for all students. The sessions in other colours are only for those working on the particular case.

Please note the multiple lecture rooms in use during the course, some are in other buildings in Otaniemi than the BIZ building.

Week	Session	Date & Time	Live lectures ON CAMPUS	Assignment Due Dates
Week 1.	Lecture 1	Tuesday 10.1.2023 at 12.15-16.00 ROOM T2- C105 (note: In Tietotekniikka- building, Konemiehentie 2)	12.15-13.00 Course practicalities, overview of project work, filling in student background & preference survey to facilitate group formation (Katri Kauppi) 13.15-14.15 Lecture: supply chain management in the new normal (Katri Kauppi) 14.30-15.30 Guest lecture From Deloitte, Anne-Maria Flanagan, impact of climate change on Finnish companies 15.30-16 Group allocation to cases (Reima, Meluton or Fazer)	
		Thursday 12.1.2023 9.00-11.30 Room T003, BIZ building	REIMA case workshop (only for those assigned to case Reima) Case company presents: <ul style="list-style-type: none"> • Company and supply chain overview (general and as pertains to assignment in particular) • Case assignment • Q&A after student groups have had a chance to discuss the assignment in their groups 	
	Lecture 2	Thursday 12.1.2023 12.30-14.15 Room T004, BIZ building	Lecture: megatrends and their impact on supply chain management (Katri Kauppi) <ul style="list-style-type: none"> • Overview of megatrends • Sustainability and circularity • The demand side & distribution networks • Supply chain digitalization 	
		14.30-17.00 Room T004, BIZ building	MELUTON case workshop (only for those assigned to case Meluton) Case company presents: <ul style="list-style-type: none"> • Company and supply chain overview (general and as pertains to assignment in particular) • Case assignment Q&A after student groups have had a chance to discuss the assignment in their groups	
Week 2	Lecture 3	Tuesday 17.1.2023 12-13.30	12-14 SCM tools for “future-proofing” (Katri Kauppi) <ul style="list-style-type: none"> • Future proofing for climate change, inflation and raw material issues • Reorganizing global supply chains • Postponent, speculation and micro chains 	

		ROOM T2-C105 (note: In Tietotekniikka-building, Konemiehentie 2)		
		Tuesday 17.1.2023 13.45-16 ROOM T2-C105 (note: In Tietotekniikka-building, Konemiehentie 2)	Fazer case workshop (only to those assigned to case Fazer) Case company presents: <ul style="list-style-type: none"> • Company and supply chain overview (general and as pertains to assignment in particular) • Case assignment Q&A after student groups have had a chance to discuss the assignment in their groups	
		Thursday 19.1.2023 12.15-16.00 ROOMS T003/T004, BIZ building	12.15-13.30 Lecture: Advanced supply chain risk management (Katri Kauppi) 13.45-16 Strategic foresight in supply chain management & identification of early warning signals (Professor of Practice Gautam Basu) <ul style="list-style-type: none"> • Lecture and group exercise in creating demand & supply scenarios for the case assignment 	
Week 3		Wednesday-Friday	Each group meets with Prof Kauppi to receive feedback on their project proposal (potential group meeting with case company as well)	Monday 23.1 at 12.00 Project proposal due
Weeks 3-5	Group work and guidance sessions		Independent group work, at least 1 mandatory meeting to present progress with Prof Kauppi, option available for weekly meetings. 1 meeting with case company representative to ask questions and get feedback + nominated contact via email available	
Week 6	Final presentations	Tuesday 14.2.2023 9-13	Project presentations for REIMA case (only to those assigned to case Reima) <ul style="list-style-type: none"> • Each group presents to a panel of judges from case company & faculty and receives feedback 	Final project report due

		F102 Väre, ARTS school building		Monday 13.2 at 23.59
		Tuesday 14.2.2023 13-17 F102 Väre, ARTS school building	Project presentations for MELUTON case (only to those assigned to case Meluton) <ul style="list-style-type: none"> Each group presents to a panel of judges from case company & faculty and receives feedback 	Final project report due Monday 13.2 at 23.59
		Thursday 16.2.2023 13-17 T004, BIZ building	Project presentations for case Fazer (only to those assigned to case Fazer) <ul style="list-style-type: none"> Each group presents to a panel of judges from case company & faculty and receives feedback 	Final project report due Monday 13.2 at 23.59

7. ETHICAL RULES

Aalto University Code of Academic Integrity and Handling Thereof>

<https://into.aalto.fi/pages/viewpage.action?pageId=3772443>

8. OTHER ISSUES