

ISM-E3002 – Capstone: Future-proofing supply chains

6 ECTS

SYLLABUS version 03.01.2024

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 2023-2024, 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 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, Posti and Kemira. The overview of each case assignment is available via Mycourses (see separate sections for

each case). 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 8th 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 company-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 9.1.2024 at 12.15-16.00 Room U356 (note: Otakaari 1)	12.15-13.00 Course practicalities, overview of project work (Katri Kauppi) 13.00-14.15 Lecture: supply chain management in the new normal (Katri Kauppi) 14.15-14.45 break (approximately) 14.45-15.45 Group allocation to cases, group self-organising (Reima, Posti and Kemira)	
		Thursday 11.1.2023 9.00-11.30 Room T003, BIZ building	Posti case workshop (only for those assigned to case Posti) 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 11.1.2023 12.30-14.15 Room T004, BIZ building	Lecture: megatrends and their impact on supply chain management (Katri Kauppi)	
		Thursday 11.1.2023 14.30-17.00 Room T004, 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	
		Friday 12.1.2024 12.15-14.45 Room T003, BIZ building	Kemira case workshop (only for those assigned to case Kemira) 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 16.1.2023 12.15-15.30 ROOM T2-C105 (note: In Tietotekniikka-building, Konemiehentie 2)	Lecture on SCM tools for future proofing (Katri Kauppi) Lecture on advanced risk management in SCM (Katri Kauppi)	
		Thursday 18.1.2023 12.15-15.30 Room T-004 BIZ building	12-14 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 14-15.30 Chance to work on your group assignment, Katri and TA available for support	Friday 19.1 at 12.00 Project proposal due
Week 3		Monday-Thursday	Each group meets with Prof Kauppi and case company via Teams to receive feedback on their project proposal Book your group slot via Mycourses	
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. Potential meeting with case company representative to ask questions and get feedback + nominated contact via email available	
Week 6	Final presentations	Tuesday 13.2.2023 10-14 F102 Väre, ARTS school building	Project presentations for Posti case (only to those assigned to case Posti) <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 12.2 at 23.59
		Thursday 15.2 9.15-12.30 T004, BIZ building	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 Monday 12.2 at 23.59

		Friday 16.2.2023 12.15-16 Q202, Väre building	Project presentations for case Kemira (only to those assigned to case Kemira) <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 12.2 at 23.59
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7. ETHICAL RULES

Aalto University Code of Academic Integrity and Handling Thereof>

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

8. OTHER ISSUES