

Hessen International Summer University 2024 – Course Syllabus

<https://isu.h-da.de/>

Course: Sustainable Supply Chains

CLASS HOURS

Consult program schedule on our website.

Academic Directors

Prof. Dr. Johanna Bucerius
Prof. Dr. Armin Bohnhoff
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Guest Lecturer

Prof. Mary Bartling, University of Wisconsin Platteville

1) INFORMATION ON THE COURSE CONTENT

COURSE DESCRIPTION

The over-exploitation of natural resources required to achieve economic growth and development has had a negative impact on the environment while also causing these resources to become scarcer and costlier. It is therefore easy to see why the idea of a circular design of products and systems that offers new ways to create more sustainable supply chain models, is taking hold across the globe. This module is designed to help you understand the growing business case for sustainable supply chain solutions covering topics from environmental social governance in supply chain and supplier management, carbon accounting, green and sustainable distribution and innovative technology solutions. Participants will learn how to design, manage and lead a sustainable supply chain by incorporating circular material, product and system design into your strategies to support sustainable growth. Different requirements of supply chain tiers and various industries such as automotive, retail, pharmaceutical and chemical supply chain are considered in this module.

The teaching and learning contents and objectives as well as the structure of the course are geared mainly towards students of supply chain management, logistics or economics and business administration with specialization in supply chain management. Students with a different academic background should get in touch with the program coordinator to check whether participation is possible or not.

LEARNING OBJECTIVES

To provide an introduction to the basic concepts of sustainable supply chains. Students should be able to conceptualize a sustainable supply chain approach for a specific business, dedicated product and for regions.

COURSE MATERIALS

To be added later

TENTATIVE CLASS SCHEDULE

Class hours virtual: 12 contact hours

Class hours on-site: 90 contact hours

Self-study (virtual & on-site; including virtual group work): 100 contact hours

Total: 202 contact hours (1 contact hour = 45 minutes)

<i>Date</i>	<i>Topic</i>	<i>Type of Seminar</i>
May 2024	Virtual pre-arrival meeting	Online
Late May/early June 2024	Virtual group project	Online
June 27, 2024	Arrival in Darmstadt	Darmstadt
June 28, 2024	Welcome session, city tour, campus tour, welcome dinner	Darmstadt
June 29, 2024	Intercultural training	Darmstadt
June 30, 2024	Traveling to Berlin	
July 01, 2024	Company visits Berlin: Morning: Discussion round with a member of parliament (confirmed) Afternoon: Tesla Giga Factory (planned)	Berlin
July 02, 2024	Company visits Berlin: Morning: Line hydrogen refueling station (planned) Afternoon: pi4 robotics – self-driving delivery robots (planned)	Berlin
July 03, 2024	Free time in Berlin	Berlin
July 04, 2024	Traveling back to Darmstadt	
July 05, 2024	Seminar: lecture introduction sustainable last mile delivery concepts (cargo tram, cargo bike, iHub, micro-hubs, last mile walker, delivery robots, sharing delivery solutions, ...); introduction group assignment	Darmstadt
July 08, 2024	Company visit: DHL Innovation Center: learn about DHL's innovative logistics solution in context of automation, sustainability and digitalization	Troisdorf
July 09, 2024	Seminar: Carbon accounting and CO2 neutrality in global supply chains	Dieburg
July 10, 2024	Company visit: Riese & Müller (leading cargo bike manufacturer)	Mühltal
July 12, 2024	Seminar: Circular economy and reverse logistics systems	Dieburg
July 15, 2024	Company visit: Porsche (e-fuels)	Stuttgart
July 16, 2024	Seminar: Environmental social governance in SCM	Darmstadt
July 17, 2024	Seminar: Sustainability in supply chains and best practices/technologies	Darmstadt
July 19, 2024	Seminar: Final Presentations	Darmstadt
July 20, 2024	Departure from Darmstadt	

2) INFORMATION ON CLASS PARTICIPATION, ASSIGNMENTS AND EXAMS

ASSIGNMENTS

Active participation and group work on a regular basis.

EXAMS

Group presentation of a project assignment and answering questions related to the project work.

PRACTICE MATERIALS

Online manuscripts to be prepared and distributed among the participants via Moodle (online learning system).

PROFESSIONALISM & CLASS PARTICIPATION

Students are expected to attend the classes and dedicate 1-2 hours a day for preparation through reading and self-study. The participation and self-study will enable the students to answer questions, lead discussions and to contribute with own ideas and opinions.

MISSED CLASSES

No more than 10% of the contact hours can be missed for successful completion of the course module. If students miss a lecture or tutorial it is their own responsibility to obtain information on the topics.

In the event of sickness, a medical certificate must be presented to the Winter University Programme coordinator.

3) INFORMATION ON GRADING AND ECTS

ACADEMIC STANDARDS

Upon successful completion, 9 ECTS will be awarded for the class.

According to the rules of ECTS, one credit is equivalent to 25-30 hours student workload.

GRADING SCALE

Percentage	Grade		Description
90-100%	15 points	1.0	very good: an outstanding achievement
	14 points		
	13 points	1.3	
80-90%	12 points	1.7	good: an achievement substantially above average requirements
	11 points	2.0	
	10 points	2.3	
70-80%	9 points	2.7	satisfactory: an achievement which corresponds to average requirements
	8 points	3.0	
	7 points	3.3	
60-70%	6 points	3.7	sufficient: an achievement which barely meets the requirements
	5 points	4.0	
0-60%	4 points	5.0	not sufficient / failed: an achievement which does not meet the requirements
	3 points		
	2 points		
	1 point		
	0 points		

This course description was issued on January 24, 2024. The program is subject to change.