



Winter University Programme 2023 – Course Outline

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

Logistics Module: Sustainable Supply Chains

CLASS HOURS

Consult program schedule

Academic Directors

Name: Prof. Dr. Johanna Bucerius
Office: Max Planck Str. 2, 64807 Dieburg
Office hours: by appointment

Name: Prof. Dr. Armin Bohnhoff
Office: Max Planck Str. 2, 64807 Dieburg
Office hours: by appointment

Name: Prof. Dr. Monika Futschik
Office: Max Planck Str. 2, 64807 Dieburg
Office hours: by appointment

Name: Prof. Dr. Rico Wojanowski
Office: Max Planck Str. 2, 64807 Dieburg
Office hours: by appointment

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.

This module is composed of lectures, tutorials and excursions that provide knowledge about the application of sustainable concepts and approaches in different local, regional and global supply chains.

The teaching and learning contents and objectives as well as the structure of the module 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

<i>Date</i>	<i>Topic</i>	<i>Type of Seminar</i>
Dec. 10, 2022	Virtual Opening Ceremony	Online
Dec. 12, 2022	(Online) Seminar: Sustainability in Supply Chains	Online
Dec. 19, 2022	(Online) Seminar: Circular economy and reverse logistics systems	Online
Dec. 29, 2022	Arrival in Darmstadt	On-site (Darmstadt)
Dec. 30, 2022	Intercultural Training	On-site (Darmstadt)
Jan 02, 2023	Seminar: Workshop on sustainable supply chain management with Scientists & Future researcher	On-site (Darmstadt)
Jan 03, 2023	Excursion: Tour through Dematic's "Innovation and customer experience center" with tech talk around sustainable solutions in logistics automation	On-site (Darmstadt)
Jan 04, 2023	Seminar/Excursion: visit h_da logistics lab with various self-trial opportunities and simulation exercises	On-site (Darmstadt)
Jan 05, 2023	Excursion: tour through the innovation and start-up HUB31 with focus on sustainable technology solutions e.g. e-boats, drones, robotics and automated transportation systems, 3D-printers etc.	On-site (Darmstadt)
Jan 06, 2023	Seminar: sustainable trends in SCM & Group work on final project	On-site (Darmstadt)
Jan 09, 2023	Seminar: Workshop on carbon accounting with Guest speaker from Cement Logistics LafargeHolcim	On-site (Darmstadt)
Jan 10, 2023	Excursion: Guided tour through DHL innovation center in Troisdorf and presentation on sustainability, innovation and digitalization within DHL	On-site (Darmstadt)
Jan 11, 2022	Seminar: sustainable last mile concepts & group work on final project	On-site (Darmstadt)
Jan 12, 2022	Excursion: Tour through House of Logistics and Mobility Frankfurt with Guest speaker from eHighway project and cargobike parcours	On-site (Darmstadt)
Jan 13, 2022	Seminar: Final Presentations	On-site (Darmstadt)
Jan 14, 2022	Departure from Darmstadt	On-site (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, 4 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 May 12, 2022. The program is subject to change.