



Module	Logistics, Supply Chain and Network Management
Code	MSLS_AF-11
Degree Program	Master of Science in Life Sciences (MSLS)
ECTS Credits	5
Workload	150 h: Contact 50-60 h; Group Exercise 10 h; Self-study 80-90 h
Module Coordinator	<p>Name Dr. Filippo Lechthaler</p> <p>Phone +41 31 910 22 01</p> <p>Email Filippo.lechthaler@bfh.ch</p> <p>Address Bern University of Applied Sciences, School of Agricultural, Forest and Food Sciences, Laenggasse 85, 3052 Zollikofen</p>
Lecturers	<ul style="list-style-type: none"> • Dr. Filippo Lechthaler • Dr. Bernhard Pauli • Guest lecturers
Entry Requirements	Knowledge on the principles of logistics, supply chains and economics / previous completion of AF-12 recommended
Learning Outcomes and Competences	<p>After completing the module students will be able to:</p> <ul style="list-style-type: none"> • handle important terms and theories of logistics properly • apply relevant tools in logistics in practical situations • describe relevant foundations of supply chain management (SCM) • to understand and apply key analytical constructs to describe value chains and market systems development for agricultural, food and timber markets • know best practice in value chain research methods • solve selected value chain management problems • transfer these topics to logistics, supply chain and network management in agriculture, food and forest industries, both in a national and international context
Module Content	<p>The module focuses on supply chain management (SCM), logistics and network management of value chains in general (generic knowledge) and in agriculture, food and forest industries in particular.</p> <p>Supply Chain and Value Chain Management</p> <ul style="list-style-type: none"> • History and basic principles of SCM • Concept of value chain • Value-chain analysis: research and assessment methods • Cost analysis in SCM • Holistic approach to value chain management: coordination, decision-making, controlling, incentives and information in a system • Value chain approaches in international cooperation <p>Logistics</p> <ul style="list-style-type: none"> • Logistics in procurement, production, distribution and waste disposal • Logistics on strategic, tactical and operational level • Optimization of service level in logistics • Planning and controlling tools in logistics (PPS, PRP, MRPII, ERP, APS, etc.) • Methods (ABC/XYZ-analysis, procurement-portfolio, management of suppliers) • Procurement and storage strategies • Organizational forms and processes in logistics • Analysis and optimization of processes in logistics • International logistics

	<p>Analysis and Conclusion</p> <ul style="list-style-type: none"> • Discussion and reflection of logistics and SCM in agriculture, food and forest industries.
Teaching / Learning Methods	<p>Lectures will help to structure the vast field of logistics, SCM, network and value chain management</p> <p>During seminar and exercise lessons different tools used in Value Chain Management, international cooperation and logistics are presented, tested and critically discussed.</p>
Assessment of Learning Outcome	<ol style="list-style-type: none"> 1) Case study (group work) on value chain management (25%) 2) Case study (group work) on logistics (25%) 3) Final exam (50%)
Bibliography	<p>Christopher M, 2012. Logistics and Supply Chain Management: creating value-adding networks (4th edition). FT Press, 288 p.</p> <p>GTZ Eschborn (Deutsche Gesellschaft für Technische Zusammenarbeit), 2007. The Value Links Manual – The Methodology of Value Chain Promotion, First Edition.</p> <p>Rushton A, Croucher P, Baker P, 2010. The Handbook of Logistics & Distribution Management (4th edition). Kogan Page, London/Philadelphia/New Delhi, 636 p.</p> <p>Kaplinsky, Raphael and Morris, Mike (2002). A Handbook for Value Chain Research. Institute of Development Studies.</p> <p>For case studies and further reading, additional documents will be made available on Moodle one month before the start of the module.</p>
Language	English
Comments	<p>The sequences with guest lecturers, the presentations of case studies and the excursion to Krono Swiss Menznau (Bernhard Pauli) are compulsory for students.</p> <p>The detailed schedule with the dates of the compulsory sequences will be uploaded on Moodle four weeks before the start of the module.</p>
Last Update	26.04.2021 / Filippo Lechthaler