VT Logistics & Supply Chain Management			
Code: IM4CHM:VT			
Lecturers Prof. Dr. Michael Krupp Prof. Dr. Sabine Joeris Prof. Dr. Florian Waibel International guest lecturers	Module Coordinator Prof. Dr. Michael Krupp		
International guest lecturers Intended Learning Outcomes Students will be able to identify and describe the ir distribution processes within organisations. They we procurement divisions and illustrate how these divi- corporation. They will know different approaches to will be able to decide which approach suits best wi- calculate the prospective material consumption ba- will be familiar with different production types, will and deduce their demands on logistical processes. process charts and analyse them in terms of shortar Students will know the difference as well as the diff goods and services in the service sector. They will k- different influencing variables on the waiting time opportunities to optimise a service system and be and Students will know the trends that are required by company) process management (Supply Chain Mar illustrate incidental challenges in the internal conter- model) and be able to use them to explain and struces Students will be able to name the elements of a log- interdependencies. They will know the interdepend- planned and controlled purposefully. They will view to derive requirements from this and transfer them will know the reference framework of company-wit- tasks in the sense of SCM. Students till know the different levels of the supply know the different perspectives of logistics and SCL facing the tasks of logistics and SCM in the operation illustrate this. They will know different framework different industries and will be able to describe and logistics and SCM. They will be able to pin optimisation approaches and sectorially and apply them on the basis of the chall Students will know general optimisation approaches and sectorially and apply them on the basis of the chall Students will know general optimisation approaches and sectorially and apply them on the basis of the chall Students will know general optimisation approaches and sectorially and apply them on the basis of the chall Students will know general optimisation approaches	nterrelation between purchase, production and <i>i</i> ill be able to clarify the functions of purchase and isions affect the operating efficiency of a o identify the determination of requirements and thin a given business case. Students will be able to sed on the bill of materials and past values. They I be able to identify them by typical characteristics They will be able to illustrate work flows in ge and critical path. ferent challenges of industrial production and the know the queuing problem and the effects of in a service system. They will know the able to generate improvements independently. intra-company and company-wide (across nagement-SCM). They will be able to clarify and ext. Students will know generic models (reference acture chain processes. gistical system and reflect (their) dencies of elements and how their input can be v logistics as a cross-sectional function and be able n to different application fields/companies. They de processes and be able to clarify and conditions for logistics and SCM arising from d specify the resultant requirements placed on and methods to the perspectives in question enge/task. es based on their knowledge of processes and evaluate the effectiveness of optimisation		
challenge. Students will be able to answer logistical questions teams). They will be able to report about the progr	purposefully within the framework of a project (in ress of a project and to make statements about the		
selection and impact of the chosen measures. Students will know the pros and cons associated w process and will be able to deduce them for a spec outsourcing approach and be able to describe how being able to set up a standard case call for bids an know how to calculate the base price and the brea	ith the outsourcing of a production and/or service ific business case. They will understand the to identify the appropriate supplier as well as id to evaluate the response. Furthermore they will k-even point. Students will have the ability to		

compare the costs of in-house production with those in a supplier's proposal and make their decision based on quantitative and qualitative factors. They will know different pricing strategies with regard to the outsourcing of logistical processes and will be able to compare them in terms of favourable characteristics in the context of a given situation.

Students will be familiar with the concept of a service-level agreement and will also be able make a suggestion for a suitable SLA within a specific business case. They will know key operating figures for evaluating and controlling suppliers and will also be able to decide which are mandatory in a specific case.

Content

Courses in the Module

- SCM Basics (2 contact hours, Prof. Dr. Michael Krupp)
- SCM Optimisation (2 contact hours, Prof. Dr. Michael Krupp)
- SCM Practice (2 contact hours, Prof. Dr. Michael Krupp)
- Outsourcing & Controlling (2 contact hours, Prof. Dr. Sabine Joeris)

Detailed Course Description

- Basics of logistics & supply chain management
- Three meanings of logistics from classical transport logistics to the management of flow systems
- Logistics market and its sub-segments
- Elements of a logistical system
- Supply chain management reference models
- Supply chain management optimisation approaches (horizontal, vertical, sequential supply chain management integration, reduction in complexity, lean management)
- Methods of supply chain management (management of existing supply chains, supply chain management, supply chain risk management, quick response/ECR, custodian warehouse & VMI, push-/pull-approach, JiT/JiS)
- Outsourcing
- Contract logistics
- Purchasing process
- Procurement controlling tasks & tools: static and dynamic investment calculation, breakeven analysis, ceiling price calculation, value benefit analysis, supplier profiling analysis, total cost of ownership, supplier lifetime value, purchasing balanced scorecard, KPIs)
- Pricing strategy
- Success factors in the outsourcing of logistical processes
- Strategies of contract logistics companies
- Service level agreement and contract arrangement

Teaching & Learning Methods

- Lectures
- Case studies
- Simulation games (e.g. beer game)
- Assignments and presentation
- Field trips and practical lectures

Media

Presentation materials / flipchart / metaplan board / information graphics / presentation software, e.g. PowerPoint.

Relation / Interface to other Modules

Additional Information

- The course is divided into lectures and compulsory workshops
- Valuable research may be published in the faculty's own study series

Literature

- Scripts by lecturer
- Standard literature (defined at the beginning of each semester or adjunct to lecture)
- Further literature will be announced at each lecture

Organisation

ECTS Credits	Contact Hours		Language of Instruction	
12	8		English	
Type of Module	Offered		Duration	
Study focus	Winter semester		1 semester	
Semester of Study				
3 rd year, 5 th till 7 th semester				
Prerequisite for Participation				
See §6 Study- and Examination Regulations				
Recommended Requirements				
Read the books				
Study notes taken in class				
Participate in the lecture				
Total Workload and Breakdown of Credits				
12 ECTS credits: 360 hours,				
made up of:				
Course Attendance	Preparation / Homework /		Time for Exercises and Group	
	Self-study		Work	
120 hours	120 hours			
Semester Project / Presentation	Exam Preparation		Duration of Examination	
Preparation				
60 nours	60 nours 90 minutes			
Prerequisite for Award of Credit Points				
Written examination				
Additional presentation and/or project work during the semester				
Examination Requirements	Weighting in Ex		amination	
Written examination	examination Written examin		ation:	
Course work	• 25% basics			
Presentation		25% optimisation		
	25% practic		e	
		 25% outsou 	rcing & controlling	