

Module 9: Production and logistics management (E)				
Workload 180 h	Credits 6	Study semester Semester 1 or 2	When Every summer semester	Duration 1 semester
		Contact time 4 semester periods per week / 60 hours	Self-study 120 h	Planned group size 25 students
1	Courses Production and logistics management			
2	<p>Learning outcomes / Skills</p> <p><i>Knowledge and understanding:</i> Students understand the increased importance of production, logistics and supply chain management (SCM) in an international environment, as well as their connection to quantitative methods of operations management. They know about basic concepts for reducing and dealing with logistical complexity, and the potential of IT-based integration management, product life cycle management and business process management to enhance supply chain performance and deal with the particular challenges posed by international supply chains.</p> <p><i>Skills:</i> Students can critically analyse strategic positioning in complex global supply chains on the basis of theoretical explanatory approaches. They are able to analyse, structure and model planning problems in production and in supply chains, and use suitable methods to solve these problems, with evaluation criteria taking account of sustainability appropriately factored in.</p>			
3	<p>Contents</p> <ul style="list-style-type: none"> • Basic principles of production management and supply chain management • Design approaches in the field of lean production • Global production networks / Coordination in the logistics chain • Risk management and risk avoidance strategies • Sustainability and the supply chain 			
4	Course Type The course is seminar-based.			
5	Participation requirements None			
6	Examination form Oral examination			
7	Requirements for the Awarding of Credits Minimum grade of „sufficient“ in the examination			
8	Weighting of grade as a proportion of final grade 6/30 x 0.3			
9	Module supervisor and full-time lecturer Prof. Andreas Merchiers			
10	<p>Compulsory literature</p> <ul style="list-style-type: none"> • Eversheim, Schuh: Betriebshütte – Produktion und Management, Springer-Verlag • Schuh, Stich: Logistikmanagement: Handbuch Produktion und Management, 			

	<p>VDI-Springer</p> <p>Recommended literature</p> <ul style="list-style-type: none">• Kummer, Grün, Jammerneegg: Grundzüge der Beschaffung, Produktion und Logistik, Pearson Verlag• Nyhuis, Wiendahl: Logistische Kennlinien – Grundlagen, Werkzeuge und Anwendungen, VDI-Springer Verlag• Womack, Jones: The Machine That Changed the World, Free Press <p>The latest recommendations for further reading will be issued at the start of the semester.</p>
--	---