

Module	<b>Supply Chain Management</b>
<b>Semester</b>	3
<b>Responsible</b>	Gunnar Prause, Prof. Dr. math. <a href="http://www.wi.hs-wismar.de/gunnar.prause">www.wi.hs-wismar.de/gunnar.prause</a>
<b>Lecturer</b>	Gunnar Prause
<b>Language</b>	English
<b>Curriculum</b>	Elective module in the degree programme Master of Business Systems
<b>Type of teaching</b>	<p>Private studies according to study notes including literature research using textbooks or other sources. Workshop, case study, discussion group, application to course project.</p> <p>Support is given via the Learn Management System Stud.IP including information, references, or files. Various communication channels are used, including email, forum, chat, wiki-pages or online tutorials. Work-based learning by linking information technology theory with workplace environment and experience.</p>
<b>Workload</b>	<p>Focused work on the topics during the semester is required. A full-day workshop. Case study including term paper requires independent and focused attention. Approximately 110 hours self-study required.</p>
<b>Credit points</b>	5
<b>Prerequisites</b>	The students should have master knowledge in informatics and management, integrated industrial business, organization and business processes.
<b>Module objectives</b>	<p>Goals: The course is intended to develop understanding of both strategic and operational issues of supply chain management. On completion of the course, the students know the concepts and methods of supply chain management, the applications and ways to analyse multimodal transportation concepts, supply chains and supply relations so that they are able to solve problems and inefficiencies of supply chains.</p> <p>Learning outcomes: Students are able to observe and analyse strategic and operational issues of multimodal logistics and supply chain management and they are able</p> <ul style="list-style-type: none"> <li>- to understand the concepts and deal with various kinds of problems that may appear in establishing or participating in supply chains</li> <li>- to perceive interdisciplinary relations in multimodal logistics and supply chain management and to use that information in decision making</li> <li>- to choose suitable methods and technologies for solving multimodal logistics and supply chain problems</li> <li>- to analyse problems from multiple viewpoints and to present, discuss and defend their views</li> <li>- to further to develop their teamworking and management skills via groupwork</li> <li>- to further acquire knowledge by studying and being able to understand higher level academic approaches of supply chain management</li> </ul>
<b>Content</b>	<p>Supply Chain Management (SCM) deals with cross-company value creation networks in order to realise an efficient integration of the full value chain between suppliers, manufacturers, retailer and clients. Since all parts of the value chain are involved in SCM the topic is placed in the intersection of Business Administration, Logistics, Informatics and Engineering with a dominating part in Management.</p> <ol style="list-style-type: none"> <li>a. Fundamentals of Supply Chain Management</li> <li>b. Managing the Performance of Supply Chains</li> </ol>

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	<ul style="list-style-type: none"> <li>c. Multimodality and global supply chains</li> <li>d. Smart SCM (Internet of Things and Services, Industry 4.0)</li> <li>e. Green/Sustainable SCM</li> </ul> <p>The students should have gained preliminary knowledge on bachelor level in business administration, logistics and informatics.</p>
<b>Examination</b>	Review of case study, oral presentation or written exam. Assessment details will be provided at the beginning of the semester.
<b>Reading list</b>	<p>J. Heizer, B. Render; Operations Management; 11<sup>th</sup> ed.; Prentice Hall</p> <p>P. Nyhuis, H-P. Wiendahl; Fundamentals of Production Logistics; Springer</p> <p>D. Simchi-Levi; Operations Rules: Delivering Customer Value through Flexible Operations; MIT Press</p> <p>D. Simchi-Levi, P. Kaminsky, E. Simchi-Levi; Designing &amp; Managing the Supply Chain: Concepts, Strategies &amp; Case Studies;</p> <p>H.-P. Wiendahl, S. Lutz; Production in Networks; CIRP Annals - Manufacturing Technology, Volume 51, Issue 2, 2002, Pages 573–586</p>
<b>Notes</b>	Topics are related to management, informatics, business operations and logistics