

<b>Logistics 1</b>					
<b>Identification number</b>	<b>Workload</b>	<b>Credits</b>	<b>Semester</b>	<b>When</b>	<b>Duration</b>
3111	150 h	5	5 <sup>th</sup> / 7 <sup>th</sup> semester	Once a year	1 semester
<b>1</b>	<b>Lectures</b> Logistics 1	<b>Class contact time</b> 4 contact hrs / 60 h	<b>Self-study</b> 90 h	<b>Planned group size</b> max. 25 students	
<b>2</b>	<b>Learning Outcomes / Skills</b> Students will recognise and understand the system character of integrated supply chains. They will be able to formally describe and commercially analyse logistic systems. They will know the potential of modern information and communications systems in logical system design and will be able to bring them to bear in a practical context.				
<b>3</b>	<b>Contents</b> <ul style="list-style-type: none"> <li>I. Logistics as a Scientific Discipline               <ul style="list-style-type: none"> <li>• Logistics as a Design of Object Flows</li> <li>• Logistics as an Application-Related Discipline with a Multi-Perspective View and an Interdisciplinary Approach</li> </ul> </li> <li>II. Guidelines of Logistics               <ul style="list-style-type: none"> <li>• Logistics and Supply Chain Management</li> <li>• The Complexity of Logistic Networks as a Consequence of Interorganisational Division of Labour (New Institutional Economy, Resource Based View)</li> <li>• Cooperation in Competition (Supply Chain Integration)</li> <li>• Information Asymmetries and the Bullwhip Effect</li> </ul> </li> <li>III. Approaches to Overcome Local Concepts of Planning               <ul style="list-style-type: none"> <li>• Logic and Issues of Local Planning (Demand Forecast, Lot Size Planning, Safety Stock Calculation)</li> <li>• The Concept of Risk Pooling / Echelon Inventory Planning</li> <li>• Vendor Managed Inventory, Cross Docking</li> <li>• Theory of Constrains / Shortage-Orientated Controlling</li> <li>• Advanced Planning Systems</li> </ul> </li> <li>IV. Efficient Consumer Response               <ul style="list-style-type: none"> <li>• ECR House</li> <li>• Enabling Technologies / Supply &amp; Demand Side Processes / CPFR</li> </ul> </li> <li>V. The Configuration of Inter-Company Supply Chains               <ul style="list-style-type: none"> <li>• Logistics-Orientated Product Development</li> <li>• Modularisation of Logistic Systems</li> <li>• Postponement and Order Penetration Depth</li> <li>• SCOR Model</li> </ul> </li> <li>VI. Supply Management               <ul style="list-style-type: none"> <li>• Industrial Procurement Management</li> <li>• Procurement Strategies and Supplier Management</li> <li>• eProcurement / Establishing Operational Processes of Procurement</li> <li>• Project Purchasing</li> </ul> </li> <li>VII. Product Lifecycle Management/ SC Integration in the Innovation Process</li> <li>VIII. Value-Orientated Supply Chain Controlling               <ul style="list-style-type: none"> <li>• SCM and Value-Orientated Company Management</li> <li>• Key Figures of the SCOR Model</li> <li>• Process Cost Accounting</li> <li>• SC-Balanced Scorecard</li> <li>• Supply Chain Risk Management</li> </ul> </li> </ul>				
<b>4</b>	<b>Course type</b> Seminar Lectures				
<b>5</b>	<b>Participation requirements</b>				

	none
<b>6</b>	<b>Examination form</b> Written exam (90 min) under supervision or oral exam
<b>7</b>	<b>Requirements for the Awarding of Credits</b> Minimum grade of „sufficient“ in the examination
<b>8</b>	<b>Application of the Module</b> (in other programmes of study) BA Economic Sciences BA International Business and Management BA Economic Engineering
<b>9</b>	<b>Weight of the grade in the final overall grade</b> 5/270
<b>10</b>	<b>Module supervisor and full-time lecturer</b> Prof. Dr. Schröter
<b>11</b>	<b>Other</b> Reading list (as currently applicable): <ul style="list-style-type: none"> <li>• Alicke, Knut: Planning and Operation of Logistic Networks</li> <li>• Chopra, Sunil; Meindl, Peter: Supply Chain Management</li> <li>• Simchi-Levi, David et al.: Designing and Managing the Supply Chain</li> </ul>