

| Logistics 1 | | | | | |
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| Identification number | Workload | Credits | Semester | When | Duration |
| 3261 | 160 h | 6 | 7 th semester | Once a year | 1 semester |
| 1 | Lectures Logistics | Class contact time 4 contact hrs / 60 h | Self-study 100 h | Planned group size max. 30 students | |
| 2 | Learning Outcomes / Skills 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 informations and communications systems in logical system design and will be able to bring them to bear in a practical context. | | | | |
| 3 | Contents <ul style="list-style-type: none"> I. Logistics as a Scientific Discipline <ul style="list-style-type: none"> • Logistics as a Design of Object Flows • Logistics as an Application-Related Discipline with a Multi-Perspective View and an Interdisciplinary Approach II. Guidelines of Logistics <ul style="list-style-type: none"> • Logistics and Supply Chain Management • The Complexity of Logistic Networks as a Consequence of Interorganisational Division of Labour (New Institutional Economy, Resource Based View) • Cooperation in Competition (Supply Chain Integration) • Information Asymmetries and the Bullwhip Effect III. Approaches to Overcome Local Concepts of Planning <ul style="list-style-type: none"> • Logic and Issues of Local Planning (Demand Forecast, Lot Size Planning, Safety Stock Calculation) • The Concept of Risk Pooling / Echelon Inventory Planning • Vendor Managed Inventory, Cross Docking • Theory of Constrains / Shortage-Orientated Controlling • Advanced Planning Systems IV. Efficient Consumer Response <ul style="list-style-type: none"> • ECR House • Enabling Technologies / Supply & Demand Side Processes / CPFR V. The Configuration of Inter-Company Supply Chains <ul style="list-style-type: none"> • Logistics-Orientated Product Development • Modularisation of Logistic Systems • Postponement and Order Penetration Depth • SCOR Model VI. Supply Management <ul style="list-style-type: none"> • Industrial Procurement Management • Procurement Strategies and Supplier Management • eProcurement / Establishing Operational Processes of Procurement • Project Purchasing VII. Product Lifecycle Management/ SC Integration in the Innovation Process VIII. Value-Orientated Supply Chain Controlling <ul style="list-style-type: none"> • SCM and Value-Orientated Company Management • Key Figures of the SCOR Model • Process Cost Accounting • SC-Balanced Scorecard • Supply Chain Risk Management | | | | |
| 4 | Course type Seminar Lectures | | | | |
| 5 | Participation requirements none | | | | |
| 6 | Examination form | | | | |

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| | Written exam (120 min.) |
| 7 | Requirements for the Awarding of Credits Minimum grade of „sufficient“ in the examination |
| 8 | Application of the Module (in other programmes of study) BA Economic Sciences BA International Business and Management BA Economic Engineering |
| 9 | Module supervisor and full-time lecturer Prof. Dr. Berning, Prof. Dr. Schröter, Prof. Dr. Sprenger |
| 10 | Other Reading list (as currently applicable): <ul style="list-style-type: none"> • Alicke, Knut: Planning and Operation of Logistic Networks • Chopra, Sunil; Meindl, Peter: Supply Chain Management • Simchi-Levi, David et al.: Designing and Managing the Supply Chain |