Supply Chain Management I

Course Description

Supply chain management (SCM) is an extremely multi-faceted construct from both a theoretical and a practical point of view. An adequate understanding of the dimensions and modes of action of (global) cross-company value-creation networks requires a multidimensional approach. Such an approach starts by considering logistical processes, with modern process, flow, and network standards forming an important basis for SCM. This approach allows students to gain a fundamental understanding of SCM. With a holistic approach, we also examine numerous other problems and the logistical challenges created by this concept, which includes IT aspects of SCM (e.g., APS systems) and questions involving the collaboration and coordination of network partners. This course also considers selected industry-specific SCM solutions (efficient consumer response or VMI).

Contents

1. Fundamentals of the Supply Chain Concept
   1. Terminological and Conceptual Fundamentals
   2. Supply Chain Typology According to Otto
   3. Supply Chain Typology According to Bechtel-Jayaram
   4. Dynamic Aspects of Supply Chains
2. Selected Theoretical Concepts for the Supply Chain Concept
   1. New Institutional Economics
   2. Game Theory
   3. Network Approach
   4. Other Theoretical Additions
3. Supply Chain Management
   1. Basic Information on the Goals and Scope of Supply Chain Management
   2. Popular Problem Areas of the Supply Chain Management
   3. Supply Chain Management as an Evolutionary Step in Logistics
   4. Supply Chain Management as Cooperation Management
4. Supply Chain Management Model

4.1 Basic Information on the Term Supply Chain Management Models

1. SCOR Model
2. Supply Chain Management Task Model
3. Supply Chain Management as a Coordination Problem

5.1 Basic Information on the Concept of Coordination

1. Coordination Concepts, Context, and Perspectives of Supply Chain Management
2. Coordination Instruments