Supply Chain Management I

Course Description

SCM proves to be an extremely multi-faceted construct from both a theoretical and a practical point of view. An adequate understanding of the problem dimensions and modes of action of (global) cross-company value creation networks requires a multidimensional approach. It starts by considering logistical processes, with modern process, flow, and network standards forming an important basis for SCM. On the basis of such an approach, students should gain a fundamental understanding of SCM. From the point of view of a holistic approach, it also makes sense to also examine a number of other typical problem areas in addition to the logistical challenges of this concept. This includes IT aspects of SCM (e.g., APS systems), and questions to do with the collaboration and coordination of network partners. This course also considers selected industry specific SCM solutions (ECR or VMI).

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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 SCM
   2. Popular Problem Areas of the SCM
   3. Supply Chain Management as an Evolutionary Step in Logistics
   4. Supply Chain Management as Cooperation Management
4. SCM Model

4.1 Basic Information on the Term SCM Models

1. SCOR Model
2. SCM Task Model
3. SCM as a Coordination Problem

5.1 Basic Information on the Concept of Coordination

1. Coordination Concepts, Context, and Perspectives of SCM
2. Coordination Instruments