**Motivation**

This project aims to achieve an integrated approach to Web-based teaching in the field of Production and Logistics Management. Special consideration is given to managerial and technical concepts and to related software solutions that have gained great importance worldwide as Enterprise Resource Planning (ERP) and Supply Chain Management (SCM) systems. New developments in the direction of e-Business are also covered.

**Example**

**Applications**

Virtual Learning Units embedded in Courses

- "Logistik und operationelle Führung“ at ETHZ (3 ECTS)
- "Gestion de production“ at EPFL (4 ECTS)
- Learning Unit "Inventory Management“ at EPFL (1 ECTS)
- Blended Learning in Course "Logistik“ at UNIBE (4.5 ECTS)
- Virtual Learning Unit "Scheduling“ at UNIBE (1.5 ECTS)
- Virtual Learning Unit “ERP and Beyond“ at Virtual Global University (given by UNIBE) (8 ECTS)

**Technological Approach**

**Motivation**

After completing this module you should be able to identify or define:

- Scheduling
- Constraints
- Methods for determining the order release time
- Effects of the order release time on the achievement of logistic goals
- Methods for allocating jobs to certain facilities
- Effects of allocating jobs to certain facilities
- Effects of releasing sequences
- Effects of releasing sequences on the achievement of logistic goals
- Effects of ordering data about logistic systems
- Effects of ordering data about the logistic system

After completing this module you should be able to describe or explain:

- The basic notions of scheduling and sequencing
- How to place order release, technology, and sequencing methods in a hierarchical system of operations management levels
- The effects of sequencing and sequencing methods on logistic goals
- The effects of scheduling and sequencing methods on logistic systems
- The effects of sequencing and sequencing methods on logistic systems
- The effects of sequencing and sequencing methods on logistic systems