**Module Title**
Supply Chain and Operations Management

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<thead>
<tr>
<th>Module Code</th>
<th>Hours per week</th>
<th>Duration</th>
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<tr>
<td>SCM</td>
<td>4</td>
<td>1 Semester</td>
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**Module Instructor**
Prof. Dr. Liebetrueth

**Lecture type**
Interactive seminar with group exercises

**Pre-requisite(s)**
none

**Objectives**
- Identify the major concepts of Production and Operations Management.
- Utilize systematic planning and control of production management activities.
- Know how to set up the production/operations systems design
- Analyze just-in-time and lean management systems.
- Understand inventory management.
- Know Enterprise Resource Planning (ERP)

**Content**
The management of Production and Operations management studies how manufacturing activities can best be designed in all its facets, with particular regard to:
- Forecasting
- supply chain management and its success factors.
- quality management and control.
- Design of products and selection of processes
- Capacity planning and facility location
- Inventory management and scheduling
- Resource planning (MRP and ERP)

Teaching style is an integration of lecture and class participation, with exercises designed to exemplify key concepts.

**Grading/ Evaluation:** Quizzes, Assignments, Group projects

**ECTS-Credits:** 5

**Text book/ teaching material:**
e.g. Stevenson, W.J, Operations Management, McGraw-Hill, latest ed.