<table>
<tr><td>Module number
20</td><td colspan="3">Module title
Supply Chain and Operations Management
(Grundlagen der Logistik)</td></tr>
<tr><td>Code
SCO</td><td>Semester
3</td><td>Number of WSH
4</td><td>Module offered
Every semester</td></tr>
<tr><td>Module coordinator
Prof. Dr. Liebetruth</td><td colspan="2">Tuition type
Seminar-style tuition with exercises</td><td>Module duration
1 semester</td></tr>
<tr><td>Lecturer
Prof. Dr. Liebetruth</td><td colspan="2">Compulsory/Elective
Compulsory</td><td>Module language
English</td></tr>
<tr><td colspan="4">Access requirements
Students who have started their course at a partner university may only enter the second course period at OTH Regensburg if they have obtained a minimum of 55 ECTS credits in study semesters 1 and 2.
Basic knowledge of business planning, mathematics, English and IT issues.</td></tr>
<tr><td colspan="4">Learning outcomes
On completing the module the students will have achieved the following learning outcomes on the basis of scientific methods:
<u>Subject skills</u>
Students are able to understand the necessity and the challenges of supply chain management in an organisational context and can apply different approaches to modelling a supply chain.
Social skills
Students are able to discuss supply chain management issues and approaches in a group. They have developed an ability to defend their opinons against others.
<u>Method skills</u>
Students can structure and localise the problems of supply chain management. They have mastered (some of) the basic management and planning techniques in a supply chain context such as logistical supplier integration, MRP/MRP II. Students can establish a value stream map und understand the concepts of optimising a value stream.
<u>Personal skills</u>
Students have the abilty to learn and communicate technical issues in a foreign language.</td></tr>
<tr><td colspan="4">Content
This course provides insights into classical planning and organisation principles in supply chain management as well as modern tools to achieve a lean value stream. The underlying structure of the course is provided by the four basic elements of the Supply Chain Operations Reference (SCOR) model: Plan, Source, Make and Deliver. In each of the modules basic classical techniques are taught and the advancement of supply chain management is discussed.
• Introduction: Definitions, examples and goals of SCM, sustainability in SCM
• Plan: General planning tools, inventory and production planning
• Source: Supplier integration and sourcing strategies
• Make: Operational production planning and control, value stream analysis
• Deliver: Distribution networks, cross docking</td></tr>
</table>

Literature

Required reading

Script

Recommended reading

Bowersox, Donald; Closs, David; Cooper, Bixby M.: Supply Chain Logistics Management, 3rd ed., Boston 2009

Christopher, Martin: Logistics and Supply Chain Management, Edinburgh 1998

Grant, David B.: Logistics Management, Harlow 2012

Rother, Mike; Shook, John: Learning to see – Value stream mapping to create value and eliminate muda, Ann Arbour 1998

Simchi-Levi, David; Kaminsky, Philip; Simchi-Levi, Edith: Designing and Managing the Supply Chain, 3rd ed., Boston 2007

Latest edition

Teaching and learning methods

Seminar-style tuition

Type of examination/Requirements for the award of credit points	Oral presentation of a specific topic (30 minutes) Written examination Duration: 60 minutes
Other information	-

ECTS Credits	**Workload**	**Weighting of the grade in the overall grade**
5	150 hours Contact/ attendance time: 60 h Additional work: 90 h	5