Department 09 Engineering and Management

Course title Lean Management & Lean Administration

Hours per week (SWS) 4

Number of ECTS credits 5

Course objective The aim of the course is to provide students with an understanding of:
• The concepts behind green logistics and sustainability.
• The methods and tools used to plan and evaluate green supply chains.
• The ecological or carbon footprint.

Having successfully completed the module students will be familiar with the environmental, social and economic requirements of green supply chains.
Students will know how to distinguish between the most important evaluation methods for energy consumption, CO2 emissions and other exhaust gases.
Students will therefore be aware of the impact of global and local sourcing on the environment.

Prerequisites Master students only.
Engineering and Business Administration background assumed
Basics in Management of Production and Logistics

Priority to exchange students that are enrolled at the department of Engineering and Management!

Recommended reading

Teaching methods The module is Taught (T) to an international, intercultural and interdisciplinary audience through:
• lectures
• case studies
• directed self-study

Distance Learning (DL) is not available but the course is supported by:
• videos
• Moodle

Assessment methods The module is assessed by
• Project work
• Presentation
Both assessments are of equal value.

Language of instruction English

Name of lecturer Prof. Dr. Markus Däubel

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Link

Course content 1. The concept of sustainability
2. The concept of green logistics
3. The status of green logistics and sustainability in business
4. Methods to evaluate energy consumption and exhaust gases
5. Environmental and ecological certificates
6. Global sourcing versus local sourcing
7. Rethinking and changing of existing supply chains

Remarks