inf51 - Environmental Management Information Systems I

Module label: Environmental Management Information Systems I
Module code: inf51
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master's Programme Business Informatics > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte Informatik
- Master's Programme Environmental Modelling > Mastermodule
- Master's Programme Sustainability Economics and Management > Additional Modules

Contact person:
Module responsibility:
- Jorge Marx Gomez
- Die im Modul Lehrenden

Authorized examiners:
- Jorge Marx Gomez
- Die im Modul Lehrenden

Entry requirements:
This module completes the knowledge and abilities gained in the field of Environmental Informatics and it creates a strong reference to up to date topics in the field of sustainability. The content taught in this module can directly be applied in an upcoming study and professional career.

Skills to be acquired in this module:

Professional competence:
The students:
- are able to classify and explain the sustainability paradigm
- are aware of the current status of sustainability reporting
- are able to define and to model material flows
- have obtained know-how in the field of corporate environmental management information systems (CEMIS)

Methodological competence:
The students:
- implement CEMIS
- apply different techniques and methods to case studies
- develop new case studies in teams

Social competence:
The students:
- are supposed to work in teams and therefore have to identify working packages and have to take on responsibility for the jobs assigned to them
- present and discuss their own results with the team and the other members of the course

Self-competence:
The students:
- learn about their own limitations and learn to accept criticism in order to strengthen their own abilities

Module contents:
This course teaches methods, approaches and techniques in the field of information processing in order to support solutions to problems that arise from companies' impact on the environment. In particular, ICT supported approaches of production-integrated environmental protection, environmental controlling and reporting are introduced and discussed. In order to enable the integration of such approaches into environmental protection, environmental management and its systems are taught as well.

The content in detail:
• environmental management as a basis for sustainability
• sustainability and material flow management
• strategic environmental management
• eco-controlling life cycle
• characteristics and system architectures of CEMIS
• standard software systems
• environmental accounting systems

Reader’s advisory


Links
http://www.wi-ol.de

Language of instruction
German
Duration (semesters)
1 Semester
Module frequency
jährlich
Module capacity
unlimited
Modullevel
AS (Akzentsetzung / Accentuation)
Modulart
je nach Studiengang Pflicht oder Wahlpflicht
Lern-/Lehrform / Type of program
V+Ü

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<tr>
<th>Examination</th>
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<th>Type of examination</th>
<th>exercises and written exam (max. 120 min.)</th>
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<td>At the end of the lecture period</td>
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<td>Exercises</td>
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<td>2.00</td>
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Total time of attendance for the module
56 h