inf651 - Environmental Management Information Systems I

Module name  | Environmental Management Information Systems I
---|---
Module code  | inf651
ECTS credit points  | 6.0 KP
Workload  | 180 h

Used in degree programmes
- Master's Programme Business Informatics > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Mastermodule
- Master's Programme Sustainability Economics and Management > Ergänzungsmodul

Contact person
module responsibility
- Jorge Marx Gomez
- Die im Modul Lehrenden

authorized examiners
- Jorge Marx Gomez
- Die im Modul Lehrenden

Prerequisites

Skills to be acquired in this module
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.

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

Recommended reading


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

Vorkenntnisse / Previous knowledge

Examination

Examination periods

Type of examination

Final exam of module

At the end of the lecture period

exercises and written exam (max. 120 min.)
<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Course frequency</th>
<th>Workload attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>2</td>
<td></td>
<td>28 h</td>
</tr>
<tr>
<td>Exercises</td>
<td></td>
<td>2</td>
<td></td>
<td>28 h</td>
</tr>
</tbody>
</table>

**Total attendance time for module** 56 h