inf659 - Environmental Management Information Systems II

<table>
<thead>
<tr>
<th>Module name</th>
<th>Environmental Management Information Systems II</th>
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<tbody>
<tr>
<td>Module code</td>
<td>inf659</td>
</tr>
<tr>
<td>ECTS credit points</td>
<td>6.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>180 h</td>
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</table>
| 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 | This course aims at examining emerging research questions in the field of corporate environmental management information systems (CEMIS). After finishing this course, the students will have extensive knowledge regarding Business Environmental Informatics. In addition, they will be aware of recent research topics and challenges as well as relevant software solutions and practical projects. |

**Professional competence**

The students:

- will obtain extensive knowledge in the field of CEMIS
- know emerging research questions and challenges as well as software solutions and projects

**Methodological competence**

The students:

- find their own solutions or apply already existing approaches to new and unsolved questions in the field of CEMIS
- capture required data, analyse it and present it to their team or the whole group

**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
A strong social pressure forces enterprises to question their current way of implementing their business and to include different aspects of sustainability into their strategies and operational actions. Such a rethinking of one’s business is supported by corporate environmental management information systems. Such systems aim at optimising the energy and resource usage, emission and waste minimisation as well as production integrated environmental protection. Of course they support the fulfillment of legal requirements such as waste management or hazardous material handling.

The module will cover:

- recent and emerging research questions and topics related to the field of CEMIS as well as Business Environmental Informatics,
- discussion and hands-on experience of standard software systems and newly established solutions.
- applying the knowledge obtained to the definition of new as well as on solving new case studies.

Recommended reading

- Rautenstrauch, C. (1999), Betriebliche Umweltinformationssysteme, Springer-Verlag

Recommended reading


Links

http://www.wi-ol.de

Languages of instruction

German, English

Duration (semesters)

1 semester

Module frequency

jährlich

Module capacity

Unlimited

Information

Type and language of program will be announced prior to the beginning of the course

Modulelevel

AS (Akzentsetzung / Accentuation)

Modulart

je nach Studiengang Pflicht oder Wahlpflicht
**Lern-/Lehrform / Type of program**  
V (2 SWS), Ü (2 SWS) or SE  
announced at the beginning of the lecture period (2SWS V + 2 SWS Ü oder block seminar)

**Vorkenntnisse / Previous knowledge**

<table>
<thead>
<tr>
<th>Examination</th>
<th>Examination periods</th>
<th>Type of examination</th>
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<tbody>
<tr>
<td>Final exam of module</td>
<td>Usually 2 weeks after the end of the lecture period</td>
<td>Seminar paper and presentation or term paper</td>
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<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Course frequency</th>
<th>Workload attendance</th>
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<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>2</td>
<td></td>
<td>28 h</td>
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<tr>
<td>Exercises</td>
<td></td>
<td>2</td>
<td></td>
<td>28 h</td>
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**Total attendance time for module**  
56 h