inf651 - Environmental Management Information Systems I

Module label
Environmental Management Information Systems I

Module code
inf651

Credit points
6.0 KP

Workload
180 h

Used in course of study
- Master's Programme Business Informatics > Akzentsetzungsmodule 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

Vorkenntnisse / Previous knowledge

Examination
Final exam of module
Time of examination
At the end of the lecture period
Type of examination
exercises and written exam (max. 120 min.)

Course type
Lecture
Exercises
Comment
SWS
Frequency
SuSe
Workload attendance
2.00
2.00
28 h
28 h

Total time of attendance for the module
56 h