inf660 - Sustainability Informatics

Module label: Sustainability Informatics
Module code: inf660
Credit points: 6.0 KP
Workload: 180 h

(Type and language of program will be announced prior to the beginning of the course. The course is recognised as a practical project in the Master's programme Sustainability Economics and Management.)

Used in course of study:
- Master's Programme Business Informatics > Akzentsetzungsmodule Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte Informatik

Contact person:
Module responsibility:
- Jorge Marx Gomez
- Barbara Bremer-Rapp

Authorized examiners:
- Jorge Marx Gomez
- Barbara Bremer-Rapp

Entry requirements
Skills to be acquired in this module:
After finishing this course, students should be able to set up a sustainability report tailormade for different target groups for any kind of organization.

The students will be enabled to know and apply different available standards and guidelines as well as to estimate the influence of data defects and the feasibility of recent information and communication technology.

This course emphasizes the importance of sustainability reporting as a means of an organization's communication (internal and external) and provides an overview on relevant indicators, standards and guidelines. Based on that the handling of data defects and missing data as well as different approaches of reporting will be discussed. In addition, the specific requirements of different target groups regarding content and presentation of a report will be discussed as well.

Professional competence
The students:
- are aware of different indicators, standards and guidelines and know when to apply which.
- know different approaches of data capturing, interpolation of missing or corrupt data as well as the influence of each of these issues on the validity of a report.
- implement concepts for tailormade target group orientation.

Methodological competence
The students:
- prepare a small sustainability report based on their decision which standard or guideline to use.
- capture existing data and analyse it.
- prepare a tailormade target oriented presentation of their results.

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
The following topics will be covered in this module:
• different definitions of the term sustainability.
• the importance of sustainability reporting as a means of an organisation's communication.
• LCA, environmental accounting, supply chain management as data sources.
• semantic, comparability and transformation of indicators, standards and guidelines.
• interpolation and interpretation of data defects.
• how to report (e.g. knowledge management, document engineering, integrated reporting, different target groups).

Reader's advisory

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

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

Languages of instruction
German, English

Duration (semesters)
1 Semester

Module frequency
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Module capacity
unlimited

Module level

Modulart
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Corporate Environmental Management Information Systems

Previous knowledge

Vorkenntnisse / Previous knowledge

Examination

Final exam of module
Seminar paper and presentation or exercises and exam

Course type

Comment

SWS

Frequency

Workload attendance

Lecture

2.00

SuSe

28 h

Übung oder Praktikum

2.00

SuSe

28 h

Total time of attendance for the module

56 h