

t.MTU - Mensch, Technik, Umwelt

Person responsible for the course: Harry Spiess, spha

Credits: 1,5

Valid for: 2010/2011

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Learning objectives:

The students understand the conception of sustainable development and its significance for their own occupational field and daily routine.

They develop an understanding for socially and ecologically driven issues and for the social demands on technical production and system solutions.

They recognise the importance of environmental and social compatibility but also of economic relations.

They work in an interdisciplinary setting and work according to scientific criteria.

Course content:

On the basis of the specific topics the following themes and questions are discussed:

- valuation of technology and technology impact assessment
- resources: demand, reservoir, techniques of utilisation, degrees of efficiency, emissions
- efficiency, consistency, sufficiency
- life cycle analysis, overall balance
- social aspects and social compatibility
- internal and external costs, growth and economic importance
- are sustainable developments feasible? Alternatives and risks
- reference to sustainable every day behaviour

(the specific topics may vary each year)

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	
Tutorial/Practicum	
Group teaching	
Block instruction	1 week + pre- and post-processing (MTU-AV: 5 days in 7 w.)
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
	End of term exam	
	Exam during the semester	
1	Further assessments	100%

Language of instruction:

German

Instruction material:

Lecturers' script

R. Kyburz-Graber (Hg.): Kompetenzen für die Zukunft. Nachhaltige Entwicklung konkret, hep-Verlag Bern 2006, ISBN 3-03905-043-5

additional articles, depending on topics

Comments:

The week is offered on three different dates during the period between semesters. In principle the group topics can be chosen by everyone, although the students are requested to state their priorities.

Exemption: AV: fixed program: 5 days in 7 weeks.