# t.MTU - Man, Technology, Environment

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|---|---|
| **Person responsible for the course:** | Harry Spiess, spha |
| **Credits:** | 1,5 |
| **Valid for:** | 2009/2010 |
| **Last saved:** | 23.08.2010 18:01 |

**Learning objectives:**

The students

- understand the conception of sustainable development and its significance for their own occupational field and daily routine,

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

- recognise the importance of environmental and social compatibility but also of economic relations,

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

**Course content:**

The following themes and questions are discussed based on specific topics:

- technology assessment 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

- feasibility of sustainable developments, 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 | |
| Seminar | 1 W |

**Assessment:**

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

| Number | Type | Weighting |
|---|---|---|
| 1 | End of term exam | 33% |
| | Exam during the semester | |
| 1 | Further assessments | 67% |

**Language of instruction:**

German

**Instruction material:**

Lecturer's script

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

**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.