t.OESSY1 - Ökonomische und soziale Systeme 1

Person responsible for the course:	Jürg Hosang, hsng
Credits:	6
Valid for:	2010/2011
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Learning objectives:

Adopt conceptual ideas from science and mathematics to model social and economic systems (continuation of the paradigm that modeling concepts can be transferred between domains used in the 'Physics and Systems Science'-module).

Course content:

Teaching topics are based on case-studies and differ for students focussed on Industrial Engineering and those focussed on Mathematical Economics and Financial Mathematics. Selected methods and concepts are taught to model and manage operations within as well as between companies. Examples thereof include for the two areas of study, respectively

Industrial Engineering
- Game theory and traffic
- Safety concept for a radio station
- Forecasting

Mathematical Economics and Financial Mathematics
- Game theory and traffic
- Safety concept for a radio station
- Modeling of economic systems

Previous knowledge:

Modules from the first year of studies

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*2L
Tutorial/Practicum	14*3L
Group teaching	
Block instruction	
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	
2	Further assessments	1

Language of instruction:

Deutsch

Instruction material:

Lecture notes

Comments:

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