Zurich University of Applied Sciences

School of Engineering

t.STMO - Statistisches Modellieren

Person responsible for the course:	Andreas Ruckstuhl, rkst
Credits:	4
Valid for:	2010/2011
Last saved:	11.08.2011 14:12

Learning objectives:

The students are familiar with multiple regression methods and are aware of which principle they are deduced from. Furthermore they can apply the discussed methods practically using statistic software.

Course content:

Single and multiple regression, estimation (including the maximum likelihood principle and robust fitting methods), residual analysis, hypothesis testing, confidence and prediction intervals, variable selection (including Akaike's Information Criterion AIC) and model building.

R (a freely available language and environment for statistical computing and graphics): Statistic and graphic functions to apply the introduced methods

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14 x 2L
Tutorial/Practicum	14 x 2L
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
1	End of term exam	0.7
1	Exam during the semester	0.2
1	Further assessments	0.1

Language of instruction:

Deutsch

Instruction material:

Skript

Comments:

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