Zurich University of Applied Sciences

School of Engineering

t.APBST - Anatomie, Physiologie und Biophysik

Person responsible for the course:	Stephan Scheidegger, scst
Credits:	4
Valid for:	2010/2011
Last saved:	18.03.2011 11:41

Learning objectives:

- knowledge of anatomical structures (without musculo-skeletal system)
- overwiev about and ability to model phiosiological and biophysical processes in teh human body
- knowledge of physical basics of the interaction of ionizing radiation with matter
- knowledge of radiation induced hazards and risks

Course content:

anatomy
cellular phiology, basics of biochemistry
physiology of the cognitive system, Respiratory system, circulation of Blood, metabolism and energy consumption
cellular biophysics
pharmacokinetics / distribution of drugs in teh organism
modelling and computer simulation of biophysical processes
basics of radiation physics
radiation biology
radiation protection

Previous knowledge:

physics of the 1st year

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	2
Tutorial/Practicum	2
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	100%
	Exam during the semester	
	Further assessments	

Language of instruction:

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Instruction material:

lecture notes

Comments:

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