

## t.PHMO - Physik: Einführung in die moderne Physik

**Person responsible for the course:** Jürg Krieg, krig  
**Credits:** 1,5  
**Valid for:** 2010/2011  
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### Learning objectives:

Quantumphysics and Theory of Relativity, both developed at the beginning of the 20th century, build the fundamentals of physics today. The students get an introduction in the fundamental terms and models of this theory, and they understand the principal ideas of the new Modern Physics (quantumphysics).

### Course content:

Quantumphysics:

Atomic models, crucial experiments, theoretical models, concepts of quantumphysics, wave particle duality, applications (H-atom)

Theory of Special Relativity:

System of inertia, moved charge in electromagnetic field, Lorentz transformation, Minkovski diagrams, momentum and energy.

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	
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:

Skript "Einführung in die Moderne Physik"

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**Comments:**

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