

t.HELIX - Introduction to Rotary Wing Aircraft

Person responsible for the course: Marcello Righi, rigm

Credits: 4

Valid for: 2011/2012

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Learning objectives:

- Helicopter + systems (knowledge)
- Performance (knowledge, application)
- Std Ops / Emergency Ops (knowledge)

Course content:

- History of rotary wing and evolution of the many configurations tested
- Operations
- Momentum Theory
- Blade Element Theory
- Rotordynamics
- Aerodynamik (Rotor)
- Helicopter Systems
- Anti-torque systems
- Landing Gear, Ground Resonance
- Helicopter Controls and Control Systems (Stability Enhancing System)
- Trends in Helicopter Design

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*4
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	70%
2	Exam during the semester	30%
	Further assessments	

Language of instruction:

German

Instruction material:

J. G. Leishman, Principles of Helicopter Aerodynamics

J. G. Leishman, The Helicopter, Thinking Forward, Looking Back

Skript

Comments:

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