

t.HELl - Introduction to Rotary Wing Aircraft

Person responsible for the course: Marcello Righi, rigm

Responsible OU:

ECTS: 4

Valid for: 2012/2013

Last saved: 29.05.2013 13:00

Expertise:

-

Methodological skills:

-

Social skills:

-

Personal skills:

-

Learning objectives:

- Helicopter General Knowledge
 - Principles of Flight
 - Performance
 - Operations (Normal, Emergency, Special Procedures)
-

Course content:

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

Previous knowledge:

-

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*4
Tutorial/Practicum	
Block instruction	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

description	type	form	scope	assessment	weighting
Performance records during school hours					
Semester end exam					

Language of instruction:

English

Instruction material:

J. G. Leishman, Principles of Helicopter Aerodynamics
J. G. Leishman, The Helicopter, Thinking Forward, Looking Back
Skript

Additional literature:

-

Comments:

-