

## t.FLP1 - Flight operation and Performance 1

**Person responsible for the course:** Roland Steiner, stnr

**Credits:** 4

**Valid for:** 2010/2011

**Last saved:** 01.09.2010 21:05

### Learning objectives:

The students

- are familiar with all factors that influence aircraft performance
- can undertake performance calculations and give due consideration to all relevant aspects,
- understand optimisation potential in aircraft performance,
- understand the operational limitations which are caused by the aircraft's performance,
- can make the transfer from the performance characteristics of an individual aircraft to the entire aviation system.

### Course content:

- Flight mechanics (Take-Off, climb, cruise, turn, descent)
- Example for preliminary design of aircraft
- Euler angles, coordinate system transformation
- CS-23, CS-25 aspects of performance
- CLASS B SINGLE-ENGINE AEROPLANES performance
- CLASS B MULTI-ENGINE AEROPLANES performance
- CLASS A MULTI-ENGINE AEROPLANES performance

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*(2L+2L)
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	80%
1	Exam during the semester	20%
	Further assessments	

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**Language of instruction:**

German

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**Instruction material:**

- Script
- EU-OPS
- Angewandte Flugleistung, Joachim Scheiderer, Verlag Springer
- Getting to grips with aircraft performance, Airbus Industries
- Handouts

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**Comments:**

Lecturers: R. Steiner and H. Kandlbauer

This is a dual course that is relevant both for the Bachelor and the licence (JAR-FCL requirements 030).