

t.FLP1 - Flight Operation and Performance 1

Person responsible for the course: Roland Steiner, stnr

Credits: 4

Valid for: 2009/2010

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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 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)
- examples of preliminary aircraft design
- 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%
	Exam during the semester	
1	Further assessments	20%

Language of instruction:

Instruction material:

- script
 - JAR-OPS
 - textbook: 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 degree and the licence (JAR-FCL requirements).