

## t.MMI - Man-Machine Interaction

**Person responsible for the course:** Ruth Esther Häusler Hermann, hasr

**Credits:** 1,5

**Valid for:** 2009/2010

**Last saved:** 23.08.2010 18:00

### Learning objectives:

The students acquire a basic understanding of human performance in a particular work environment (physiology) and of the design of technical systems in such an environment (Man-Machine interface).

They have an integrative understanding of the interaction of man, technology and environment in specific areas of application.

They are able to assess the appropriateness of a number of technical solutions in the context of man and operational environment.

### Course content:

Environmental conditions that influence human performance:

- human performance (bodily functions and health)
- human performance and environmental conditions (acceleration torque, lack of oxygen, etc.)
- anthropometric work place design
- guidance displays design
- controls design
- dialogue design
- user-oriented automation
- training
- ergonomic quality inspection

### Previous knowledge:

-

### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	
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	
1	Exam during the semester	
1	Further assessments	

---

**Language of instruction:**

German

---

**Instruction material:**

All the material and references are to be found on the internet platform BSc AV.

---

**Comments:**

Man-Machine-Interaction is a dual course: it covers the requirements of the Bachelor degree in Aviation as well those of human performance according to JAR FCL 040. Course attendance is mandatory for pilot licence candidates.