

## t.MMI - Mensch Maschine Interaktion

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

**Credits:** 1,5

**Valid for:** 2011/2012

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### Learning objectives:

Students acquire basics on human capability in certain work environments (physiology) and on the design of technical systems in these environments (human-machine-interface).

Students gain an integrative view on the topics human, technology and environment for certain operations and applications.

Students are able to judge various technical solutions in view of their adequacy to meet criteria regarding human performance and operative environments.

### Course content:

Environmental conditions influencing human performance:

- human functioning (body functions and health)
- human functioning in respect to environmental conditions (acceleration and biases, hypoxia etc.)
- Anthropometric design of work places
- display design
- design of controls
- design of dialogs
- userfriendly automation
- training
- assessment of ergonomic quality

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	2*2
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%
1	Presentation & report	30%
	Further assessments	

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**Language of instruction:**

Deutsch

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**Instruction material:**

Material und references to be found on the internet platform BSG AV

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**Comments:**

Mensch-Maschine-Interaktion is a dualer course: It covers contents of the bachelor program and the licence for pilots according the requirements of JAR FCL 040 Human Performance and Limitations. Candidates of a pilot licence have to attend this course.