The objective of this course is to provide engineers with a high-level multi-disciplinary approach and state-of-the-art knowledge to analyze operators at work. All courses and practical works are taught with a view to apply the acquired knowledge to the aeronautical and transportation domains.

Prerequisites
- Master level

Learning objectives
After completing this course, participants will be able to:
- Assess operators’ cognitive state using in-lab and in-flight measurements
- Interact with experts of the Human Factors and Neuroscience domains to improve flight safety.

Practical information and registration
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Course Content

- Signal processing for physiological data
- Statistical analyses of experimental data
- Passive Brain-Computer-Interfaces as tools for Neuroergonomics
- Simulator studies
- Application Focuses: Experimental work using real light airplanes, Accidentology.