This course focuses on the five main physiological sensors dedicated to measure human performance and mental activity. The students learn the know-how of technical, measurements and signal processing issues for each of these sensors.

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:
- Understand the operation of five sensors used to assess operators’ mental state
- Record and analyze physiological data on human operators
- Be able to interact with experts of the Human Factors and Neuroscience domains to improve flight safety.

Key elements
Dates:
27 - 30 January 2020
Duration:
25 hours
For whom:
Recent graduates, jobseekers and experienced employees
Location:
ISAE-SUPAERO, Toulouse
Course fees: 2 300 €
Language: English

Highlights
- Hands-on experimental work
- Use of physiological tools

Practical information and registration
Natalia Perthuis - 05 61 33 80 47 – info.exed@isae-supaero.fr
Course Content

- Initiation to Experimentation
- Ethics
- Eye-tracking
- Electrocardiography
- Electroencephalography
- Near Infra-Red Spectroscopy
- Application Focuses: Certification, Aviation/Aerospace psychology & medicine