

# Aérodynamique



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique

## In brief

- > **Ametys Code:** M545MLHV
- > **Open to exchange students:** No

## Presentation

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### Objectives

Introduce the main physical concepts and mathematical tools for dealing with incompressible and compressible aerodynamic problems. At the end of this course, students should be able to formulate and apply aerodynamic models, and predict the forces applied to a wing and its performance. They should also be aware of the limitations of theoretical models.

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### Description

- General introduction, terminology and nomenclature.
  - Understanding aircraft lift mechanisms.
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### Pre-requisites

- "Basic fluid mechanics
- "Thermodynamics basics