

## Flight mechanics

Course code: AFM1

ECTS Credits: 3.5

<b>Department</b>	: MFA	<b>Lectures</b>	: 11h15
<b>Lecturers</b>	: A.Spohn	<b>Tutorials</b>	: 8h45
<b>Year of study</b>	: 1 <sup>st</sup> year	<b>Laboratory sessions</b>	:
<b>Semester</b>	: 1 <sup>st</sup> semester	<b>Project</b>	:
<b>Assessment method(s)</b>	: 1 written test	<b>Home works</b>	:
<b>Language of instruction</b>	: English	<b>Total hours</b>	: 20h00
<b>Type of courses</b>	: Compulsory		

**Objective:** Basic concepts of flight mechanics

**Prerequisites:** None

**Content:**

- The atmosphere
- Geometrical and mechanical modelling of the airplane
- Basic concepts of aerodynamics
- Flight equations
- Airplane performance and flight domain
- Longitudinal stability – Eigen modes

Lab works sessions (2): Initial scaling of a light aircraft

**Recommended reading:** None

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