

Propulsion 1

Course code: APP1

ECTS Credits: 3

Department	: ET	Lectures	: 7h30
Lecturers	: C.Strozzi	Tutorials	: 6h15
Year of study	: 1 st year	Laboratory sessions	:
Semester	: 1 st semester	Project	:
Assessment method(s)	: 1 written test	Home works	:
Language of instruction	: English	Total hours	: 13h45
Type of courses	: Compulsory		

Objective: Introduction to basic knowledge of propulsion

Prerequisites: Basic thermodynamics of open and closed systems

Content:

- 1. Introduction to the general concept of propulsion**
- 2. Airbreathing propulsive systems (ideal cycles)**
 - Calculation procedure
 - Application to ramjet engine
 - Application to turbojet engine
- 3. Rocket propulsion: solid propellant systems**

Recommended reading: P. Bauer, *Aerothermochimie - Propulseurs Aéronautiques et Spatiaux*, Ed. Ellipses, France

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