

Propulsion 2

Course code: APP2

ECTS Credits: 5

Department	: ET	Lectures	: 19h30
Lecturers	: M. Bellenoue	Tutorials	: 7h30
Year of study	: 1 st year	Laboratory sessions	: 3h00
Semester	: 2 nd semester	Project	: 15h00
Assessment method(s)	: 2 written tests, 1 practical work test, 1 project	Home works	:
Language of instruction	: English	Total hours	: 45h00
Type of courses	: Compulsory		

Objective: Deepening course on propulsive systems.

Prerequisites: Basic knowledge on propulsion systems thermodynamics

Content:

- **Introduction and background**
- **Air-breathing propulsion**
 - Gas turbine engines
 - Turbojets
 - Non conventional air breathing engines (ramjet, turbo-ramjet, pulse detonation engine)
- **Rocket engine**
 - Generalities on rocket engines
 - Liquid propellant rocket engines
 - Solid propellant rocket engines

Recommended reading: None

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