

Aircraft propulsion

Lecturer

Patrick HENDRICK (Coordinator)

Course mnemonic

MECA-H507

ECTS credits

5 credits

Language(s) of instruction

English

Course period

First term

- > In-depth knowledge and understanding of integrated structural design methods in the framework of a global design strategy
- > In-depth knowledge and understanding of the advanced methods and theories to schematize and model complex problems or processes
- > Present and defend results in a scientifically sound way, using contemporary communication tools, for a national as well as for an international professional or lay audience
- > Has a broad scientific knowledge, understanding and skills to be able to design, produce and maintain complex mechanical, electrical and/or energy systems with a focus on products, systems and services.
- > Has an in-depth understanding of safety standards and rules with respect to mechanical, electrical and energy systems.

Course content

Study of the different gas turbine cycles and their applications followed by the study of their various components (modules)

Objectives (and/or specific learning outcomes)

Understand why different engine cycles exist, the way they work and the characteristics and sizing of their components

Teaching method and learning activities

Theoretical lectures + exercises + video's

Contribution to the teaching profile

This teaching unit contributes to the following competences:

- > In-depth knowledge and understanding of exact sciences with the specificity of their application to engineering

Other information

Contact(s)

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Evaluation method(s)

Other

Programmes

Programmes proposing this course at the Brussels School of Engineering

MA-IREM | Master of science in Electromechanical Engineering | finalité Professional/unit 2