

# Aircraft conceptual design

**Titulaire**

Axel Coussement (Coordonnateur)

**Mnémonique du cours**

MECA-H508

**Crédits ECTS**

5 crédits

**Langue(s) d'enseignement**

Anglais

**Période du cours**

Deuxième quadrimestre

- › 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
- › Correctly report on research or design results in the form of a technical report or in the form of a scientific paper
- › 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.

## Pré-requis et co-requis

### Cours pré-requis

MECA-Y003 | Aircraft structures | 4 crédits

## Méthodes d'enseignement et activités d'apprentissages

### Contribution au profil d'enseignement

This teaching unit contributes to the following competences:

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

## Méthode(s) d'évaluation

Autre

## Programmes

### Programmes proposant ce cours à l'école polytechnique de Bruxelles

MA-IREM | **Master : ingénieur civil électromécanicien** | finalité Spécialisée/bloc 2