

Mastère Spécialisé Advanced Master in Helicopter, Aircraft and Drone Architecture



Niveau d'étude visé
BAC +6



Diplôme
Mastère spécialisé



Domaine(s) d'étude
Ingénierie aéronautique et spatiale



Accessible en Formation initiale, VAE



Établissements
ISAE - SUPAERO

Présentation

MS AHE students interested in the growing field of civilian or military Unmanned Aerial Systems can choose to attend an in-depth program on this topic.

Objectifs

The Advanced Master in Helicopter, Aircraft and Drone Architecture offers the acquisition of the basic skills required for aeronautical engineers (architecture, certification and structures) and specific skills to identify problems, generate alternatives, choose and implement solutions on aircraft, helicopters and drones. This program offers a complete training from systems to structures through aerodynamics, flight dynamics and certification.

It is a 1-year program fully taught in English, in partnership with Airbus Helicopters

For more information, please visit ISAE-SUPAERO website or contact info-masters@isae-supaero.fr

Admission

Conditions d'accès

For more information, please visit ISAE-SUPAERO website or contact info-masters@isae-supaero.fr

<https://www.isae-supaero.fr/en/admissions-en/advanced-masters-admission/>

Et après...

Poursuites d'études

Aircraft engineering

Helicopter engineering

Insertion professionnelle

Contact(s)

Infos pratiques

Lieu(x)

 Toulouse

Programme

Année 1

Semester 1

1st PART: AIRCRAFT ARCHITECTURE & CERTIFICATION

Aircraft Architecture - HADA	1	8h
Certification	1	14h
Industrial visits: ATR, Daher socata, Safran Helicopter Engines	1	14h

2nd PART: AIRCRAFT STRUCTURES

Aircraft Structures - part1	2	25h
Structure - Part B	2	35h

3rd PART: FIXED-WING AIRCRAFT

Flight - HADA	2	30h
Aircraft General Systems	3	40h
Avionics	3	39h
Engines and Powerplant	2	20h

4th PART - DRONE

Drone systems: design and mission	2	25h
Payload and sensors for UAVs	2	18h
Drone safety and airworthiness	1	15h
Drone guidance and navigation	1	13h
Neural network for control and diagnostic	1	13h
Vertical Take Off and Landing (VTOL) Drone (AH)	3	31h

5th PART - HELICOPTER

Helicopter understanding	3	27h
Helicopter dynamics	3	31h
Helicopter materials and technology	3	31h
Helicopter avionics systems	3	31h
Helicopter : Prototypes-Tests-Production-Quality	3	31h

Semester 2

6th PART: PROFESSIONAL THESIS

PROFESSIONAL THESIS	30	770h
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Année 2

Semester 3
