

Université Paris-Saclay

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M2 Ingénierie des Systèmes Aéronautiques et Spatiaux

Master's degree

Specialisation Electrical Engineering

Enrolment type

Formation initiale

Formation continue

Language(s) of instruction

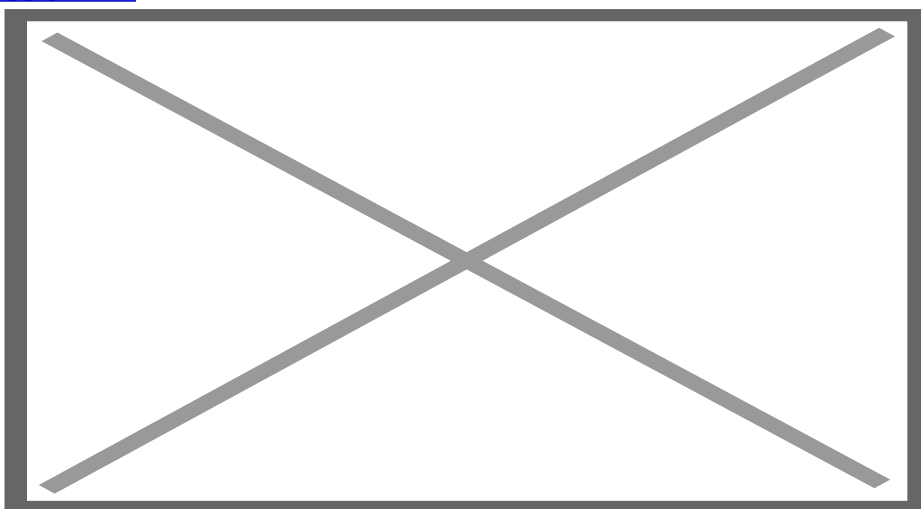
French

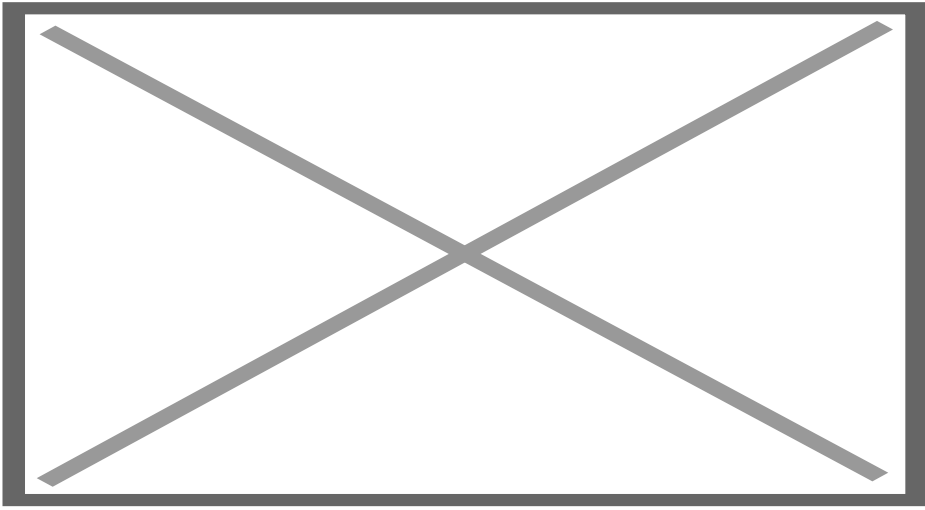
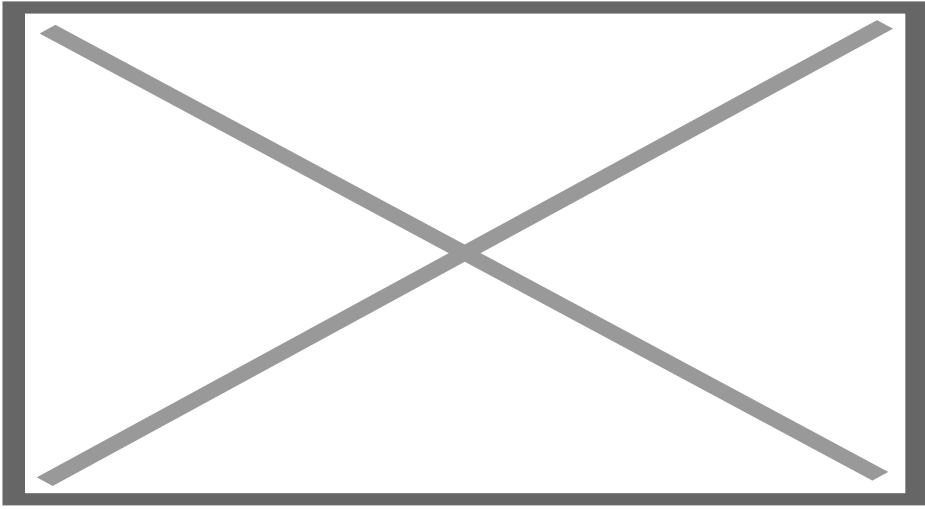
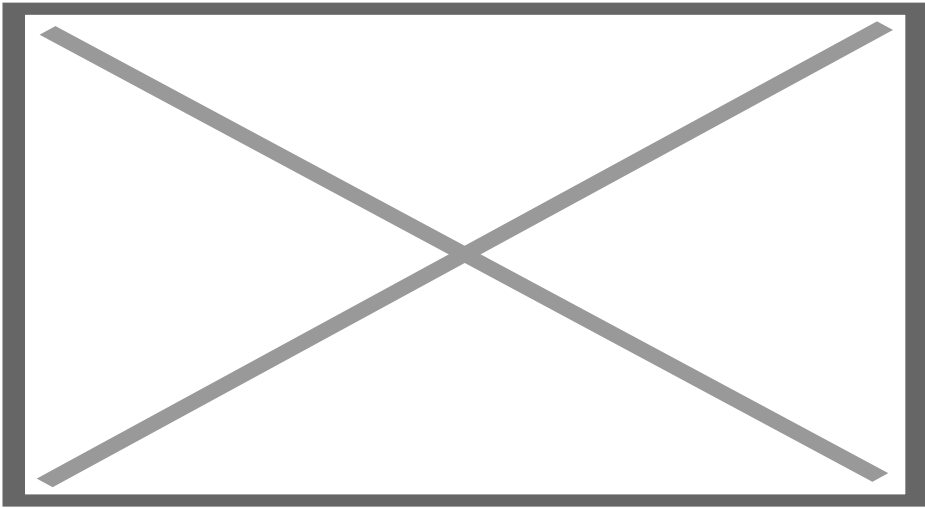
The "Aeronautical and Space Systems Engineering" course aims to master the concepts, models, tools, techniques and methodology for the design and development of avionics systems (aircraft and space vehicles)

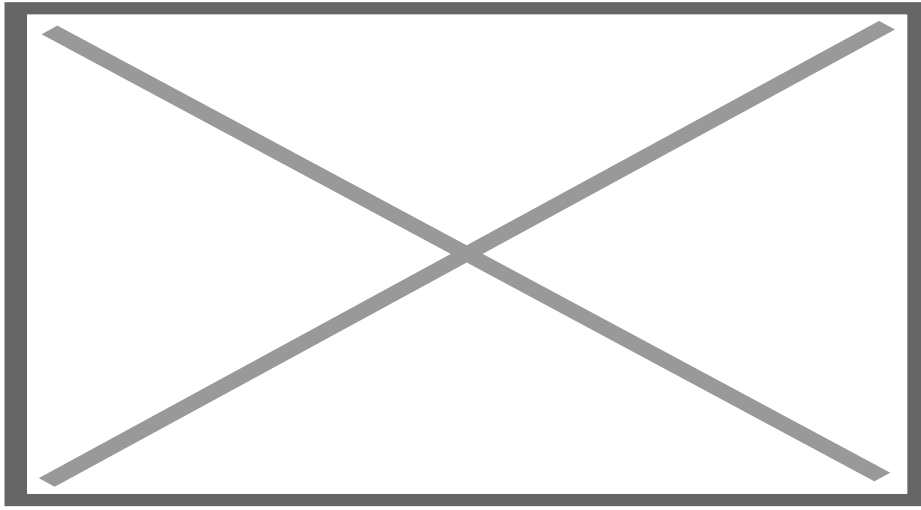
Two semesters: the first is devoted to academic achievements and the second concerns the project and an internship in a professional environment or in a research laboratory

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Information

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- [Application requirements](#)
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Présentation

Objectives

The "Aeronautical and Space Systems Engineering" program aims to master the concepts, models, tools, techniques and methodology for the design and development of avionics systems (aircraft and spacecraft). The training provides multidisciplinary scientific and technological skills (electronics, automation, embedded systems, instrumentation). It deepens the disciplines essential to the design of aircraft (flight envelope control, embedded systems architecture, software engineering, navigation systems). It addresses the most modern techniques related to the issue of intelligent systems and autonomous systems (for example, IMU/GNSS hybridization, automatic trajectory generation). The scientific skills acquired make it possible to model processes and systems by understanding technologies specific to aeronautics and space (for example: integrated navigation systems, operational safety and maintenance), in compliance with the regulations, standards and methodologies of the field (EASA parts 21, M and 145 and MSG-3, human factors).

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)

After a Master's or Master's + PhD: researcher or lecturer

After a Master's or Master's + PhD: engineer (research and development, control, production, etc.) in the fields of health, pharmaceuticals, agri-food, biotechnologies, instruments and reagents, cosmetics, pollution control and the environment.

After a Master's + PhD: researcher or lecturer

Further Study Opportunities

PhD

PhD thesis

Engineering, research and development

Engineering methods and industrialisation

Calendar

Start of programme (indicative date)

07/09/2026

End of programme (indicative date)

31/08/2027

Admission

Capacity

Available Places

28

Target Audience and Entry Requirements

De manière générale, cela concerne :

- Des étudiants de formation initiale, continue, ou alternée.
- Des étudiants disposant d'une formation scientifique et technologique générale, ou d'une spécialisation dans une des disciplines majeures de l'Electronique, Électrotechnique et Automatique et ayant validé 60 ECTS de master.
- Des étudiants ayant validé une deuxième année d'école d'ingénieurs dans un des domaines précités.
- Et tout étudiant dont la formation antérieure sera jugée équivalente. Dans tous les cas, les profils des étudiants devront comporter :
- Des connaissances scientifiques et technologiques de niveau bac+4 en E3A.

- La pratique de l'anglais."

Période(s) de candidature

Inception Platform

From 03/02/2026 to 15/07/2026

From 17/08/2026 to 31/08/2026

Supporting documents

Compulsory supporting documents

Rank of previous year and size of the promotion.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of French (compulsory for non-French speakers).

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Document indicating the list of local M2 choices available here : <https://urlz.fr/i3Lo>.

Additional supporting documents

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :

- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	directed study/practical class
Stage	24	Semestre 2							
■									
Charger le détail									
Projet professionnel ou recherche	6	Semestre 2							
■									
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	directed study/practical class
Formation obligatoire									
UE libre Catalogue S1	2.5	Semestre 1							
■									
Charger le détail									
Architecture des systèmes embarqués	3	Semester 1	12	10	8				
■									
Charger le détail									
Systèmes temps réel	3	Semester 1	10	12	8				
■									
Charger le détail									
Systèmes de navigation intégrés	3	Semester 1	10	12	8				
■									
Charger le détail									
Guidage, Pilotage, Navigation	3	Semester 1	10	12	8				
■									
Charger le détail									
Génie logiciel pour les systèmes embarqués pour l'aérospatial	3	Semester 1	10	12	8				
■									
Charger le détail									
Sûreté de fonctionnement et certification	3	Semester 1	10	12	8				
■									
Charger le détail									
Systèmes de diagnostic et tolérance aux défauts	3	Semestre 1	10	12	8				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail								
IA pour l'ingénierie aérospatiale	3	Semester 1	10	12	8			
Charger le détail								
Anglais	2	Semestre 1		14				
Charger le détail								
UE d'approfondissement								
IoT et aérospatial	2	Semester 1	10	12	8			
Charger le détail								
Radiocommunication aéronautique	2	Semester 1	10	12	8			
Charger le détail								
Réglementation de la maintenance aéronautique	2	Semester 1	10	12	8			
Charger le détail								
Méthodes de guidage et pilotage avancées	2	Semester 1	10	12	8			
Charger le détail								

Teaching Location(s)

EVRY

Contact

- **Dalil ICHALAL**

<http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-ingenierie-des-systemes-aeronautiques-et-spatiaux>