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M1 International track in electrical engineering

Master's degree

Specialisation Electrical Engineering

Enrolment type

Formation initiale

Formation continue

Language(s) of instruction

English

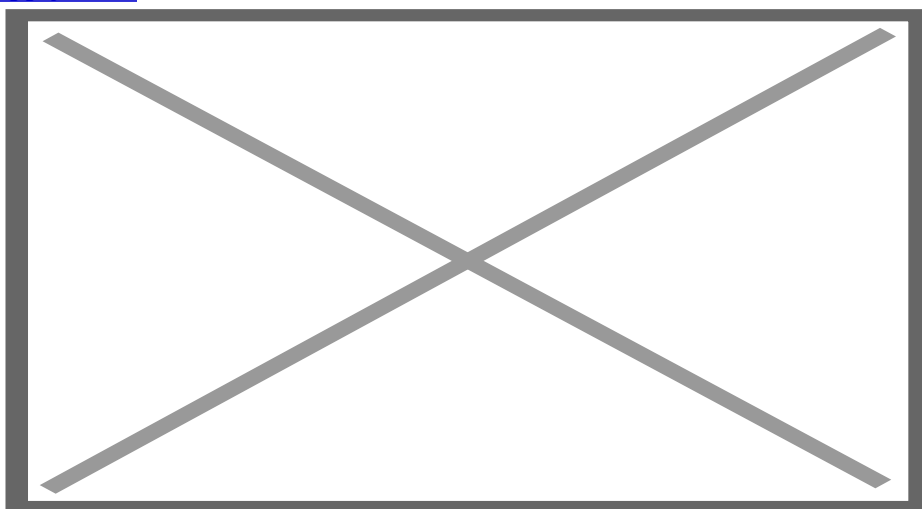
The M1 International Track in Electrical Engineering offers a multidisciplinary program at the crossroads of mechatronics, embedded systems, computer vision, artificial intelligence, and advanced electronics.

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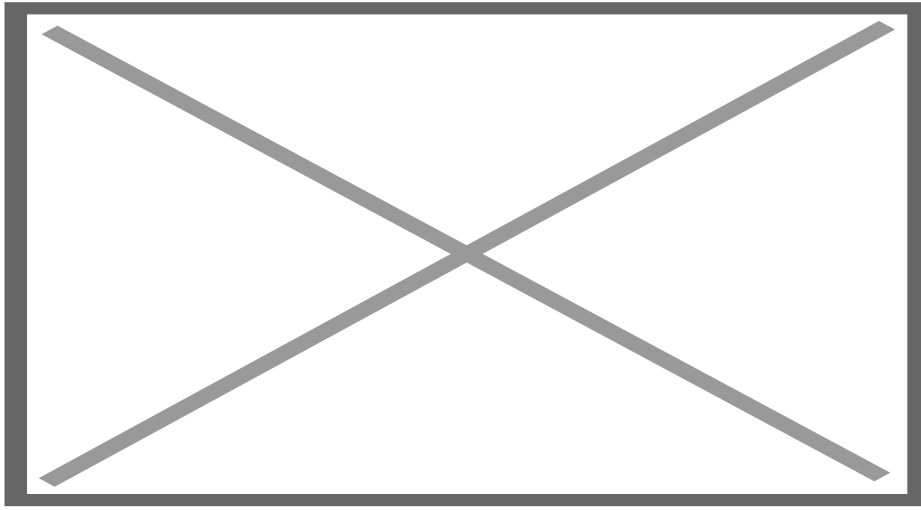
This first year of the Master's degree combines both theoretical courses and hands-on laboratory work, as well as an interdisciplinary project fostering autonomy and innovation. Students acquire solid skills in mechanics, electronics, signal processing, machine learning, and human-machine interaction, enabling them to design and integrate innovative intelligent systems.

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Information

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- [Schedule](#)

Présentation

Skills

At the end of the Master 1 program, students will have acquired the following competencies:

Scientific and Technical Competencies

Master the fundamentals of programming, electronics, and embedded systems.

Design and analyze mechatronic and robotic systems.

Develop applications in computer vision, signal processing, and statistical learning.

Integrate communicating systems (networks, digital communication, IoT).

Explore advanced technologies such as photonics, nanotechnology, and mixed reality.

Transversal Competencies

Manage an interdisciplinary project and work effectively in a team.

Develop skills in innovation, autonomy, and critical thinking.

Understand the industrial, scientific, and societal challenges of intelligent systems.

Objectives

Provide a multidisciplinary education covering mechatronic systems, embedded electronics, computer vision, artificial intelligence, and immersive technologies.

Develop students' ability to design, model, and integrate complex systems that combine hardware (sensors, actuators, circuits) and software (algorithms, programming, AI).

Foster scientific and technical autonomy through interdisciplinary projects.

Prepare students for further studies in Master 2 and for professional careers in robotics, applied AI, embedded systems, and Industry 4.0.

Admission

Admission Route

Physics
Engineering Sciences

Capacity

Available Places

28

Target Audience and Entry Requirements

Target Audience

Students holding a Bachelor's degree (Licence 3 or equivalent) in:

Engineering Sciences

Electronics, Electrical Engineering, Automation

Computer Science, Applied Mathematics

Applied Physics, Mechanics

International students seeking a multidisciplinary education in mechatronics and AI.

Professionals resuming studies (VAE or continuing education) in the field of industrial and digital technologies.

Recommended Prerequisites

Strong background in mathematics (algebra, analysis, probability).

Basic knowledge of programming.

Fundamental understanding of electronics and applied physics.

Motivation for interdisciplinary projects and innovation.

Période(s) de candidature

Inception Platform

From 03/02/2026 to 30/06/2026

From 15/07/2026 to 15/08/2026

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 English level.

Curriculum Vitae.

Additional supporting documents

Copy diplomas.

Certificate of English level (compulsory for non-English speakers).

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
Programming ■	3	Semestre 1	8		16			
Charger le détail Embedded Systems ■	3	Semestre 1	8		16			
Charger le détail French for foreigners, soft skills ■	3	Semestre 1		14				
Charger le détail Analytical and Applied Mechanics	3	Semestre 1	10	6	8			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail								
Control and Automation	3	Semestre 1	10	6	8			
Charger le détail								
Signal Processing	3	Semestre 1	10	6	8			
Charger le détail								
Digital Communication	3	Semestre 1	10	6	8			
Charger le détail								
Electronics	3	Semestre 1	10	6	8			
Charger le détail								
Photonics	3	Semestre 1	10	6	8			
Charger le détail								
Introduction to Machine Learning	3	Semestre 1	10	6	8			
Charger le détail								
Human-Machine Interaction	3	Semestre 1	10	6	8			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Project / Interdisciplinary Lab	6	Semestre 2		10				
Charger le détail								
Mechatronic Design	4	Semestre 2	12	8	8			
Charger le détail								
Modelling of Robotic Systems	4	Semestre 2	12	8	8			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail								
Machine Vision	4	Semestre 2	12	8	8			
Charger le détail								
Mixed Reality	4	Semestre 2	12	8	8			
Charger le détail								
Integrated Circuit Design	4	Semestre 2	12	8	8			
Charger le détail								
Nanotechnology	3	Semestre 2	12	8	8			
Charger le détail								
Information Theory	4	Semestre 2	12	8	8			
Charger le détail								
Networking	7	Semestre 2	12	8	8			
Charger le détail								

Teaching Location(s)

ORSAY
GIF SUR YVETTE
EVRY

Contact

- **Hedi TABIA**

<http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m1-international-track-electrical-engineering>