Université Paris-Saclay
Sciences de l’ingénierie et des systèmes
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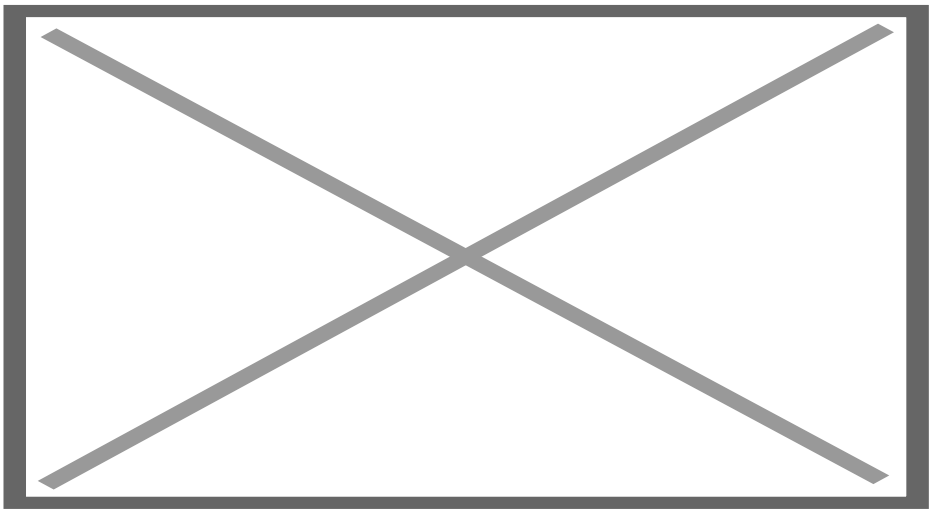
Electrical Engineering

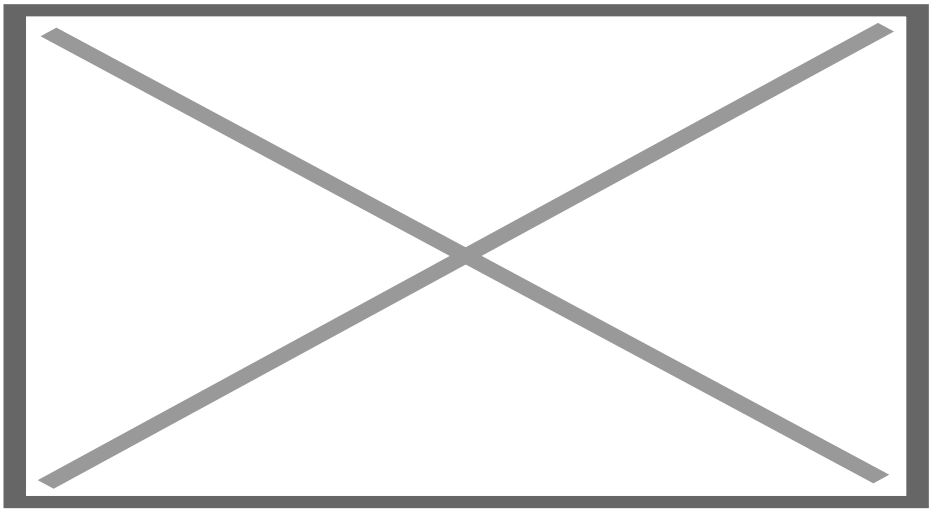
Master's degree
Language(s) of instruction
English
French

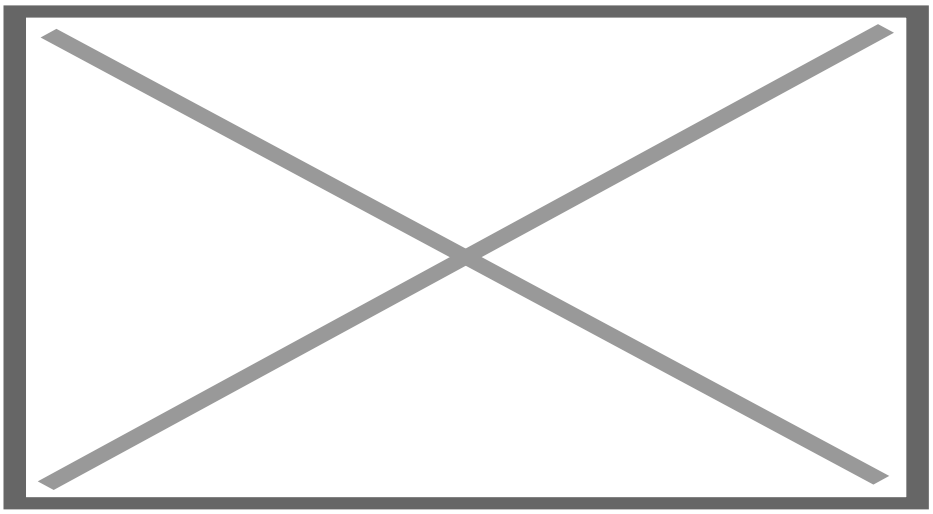
The E3A Master's program is both research and professionally oriented. Its primary objective is to provide a solid foundation and develop strong technical and scientific skills in all areas of engineering sciences, including electronics, energy, automatic control, computer engineering, telecommunications, signal and image processing, nanosciences, mechatronics, and artificial intelligence.

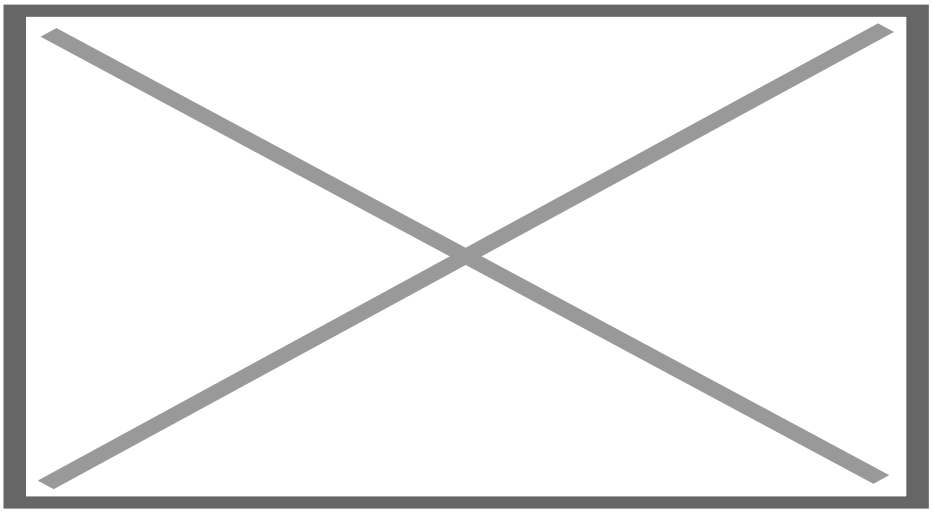
The seven M1 tracks provide students with a common foundation. Toward the end of the first semester, a specialization—through elective courses prepare students for the different M2 tracks. This specialization is further reinforced during the second semester of M1. The small triangles in front of each track are color-coded according to the seven main tracks.

Télécharger la fiche détaillée









Information

- List of Pathways
- Overview
- Application requirements

Liste parcours

Master’s Year 1

M1 E3A - Site Evry - Apprentissage
Add to Compare
M1 E3A - Site Evry
Add to Compare
M1 E3A - Site Orsay- GIF
Add to Compare
M1 E3A - Site Versailles
Add to Compare
M1 E3A - Voie André Ampère - ENS Paris Saclay
Add to Compare
M1 E3A - Voie Réseaux et télécoms apprentissage
Add to Compare
M1 International track in electrical engineering
Add to Compare

Master’s Year 2

Formation à l'Enseignement Supérieur en Sciences du Numérique (M2 FESup SciNum)
Add to Compare
M2 Advanced Wireless Communications Systems
Add to Compare
M2 Automotive and Aeronautic Intelligent Systems - Apprenticeship training
Add to Compare
M2 Control, Signal and Image Processing
Add to Compare
M2 Formation à l'enseignement supérieur en Physique des Systèmes d'Energie électrique et Electroniques
Add to Compare
M2 Imagerie Biomédicale
Add to Compare
M2 Ingénierie des Systèmes Aéronautiques et Spatiaux
Add to Compare
M2 Integration Circuits Systems
Add to Compare
M2 Mechatronics, Machine Vision and Artificial Intelligence
Add to Compare
M2 Mobile Autonomous Systems
Add to Compare
M2 Multimedia Networking
Add to Compare
M2 Physique et Ingénierie de l'Energie (PIE) : Systèmes électriques pour l'énergie et la mobilité

Add to Compare
M2 Robotique, assistance et mobilité
Add to Compare
M2 Réseaux et télécoms - Voie apprentissage
Add to Compare
M2 Réseaux et télécoms
Add to Compare
M2 Smart Aerospace and Autonomous Systems
Add to Compare
M2 Systèmes embarqués et traitement de l'information
Add to Compare
M2 Technology of Semiconductor Devices
Add to Compare
M2 Traitement de l'information et exploitation données
Add to Compare
Présentation

Skills

Creating knowledge through a scientific approach.
Training through research, developing scientists and experts.
Education open to societal challenges.

Fiche nationale du Répertoire National des Certifications Professionnelles (RNCP)

Learning outcome targets

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The various tracks within the program train high-level professionals (Master’s degree - Bac+5) over two years (M1 and M2) to address numerous socio-economic challenges related to sustainable development, healthcare, advanced industry, and innovation in the aforementioned disciplines.

The E3A program mainly focuses on six major areas:

- Higher Education in Electrical Engineering and Digital Systems (FESUP)
- Networks and Telecommunications
- Information and Systems
- Embedded Systems
- Mechatronics and Instrumentation
- Electronics and Micro/Nanotechnology
- Electrical Engineering

The different study tracks and training modules are aligned with one of these seven major areas, which structure the overall academic offering.

Débouchés

Career prospects

After a Master's or Master's + PhD: researcher or lecturer
R&D Engineer
design study engineer
Consultant
Design engineer in the industrial sector
Design engineer in the research / scientific sector
Design engineer industry / public research
Academic staff

Further Study Opportunities

PhD
Interdisciplinary PhD in Sustainability Science (many disciplines possible)
Admission

Target audience

The E3A Master’s program forms a continuum with the Bachelor's degrees in Science and Technology, Engineering Sciences (SPI), or Electronics, Electrical Energy, and Automation (E3A) offered by Université Paris-Saclay, Université d'Évry, and Université de Versailles.

The program is also open to graduates holding a Bachelor's degree in Physics, a University Technology Diploma (BUT) in Electrical Engineering and Industrial Computing (GEII), or a Bachelor's in Computer Science or Mathematics, depending on the chosen track.

Entry into the first year (M1) is open to students with a Bac+3 (Bachelor’s level or equivalent). Admission into the second year (M2) requires completion of an M1 in the E3A field or an equivalent qualification.

Finally, the M1 and M2 tracks of the E3A program are open to international students with strong academic records and the necessary prerequisites. Some Master’s programs are also offered as double-degree options in partnership with foreign universities and institutions.

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique