Université Paris-Saclay

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M2 Physique et Ingénierie de l'Energie (PIE) : Systèmes électriques pour l'énergie et la mobilité

Master's degree

Specialisation Electrical Engineering

Enrolment type

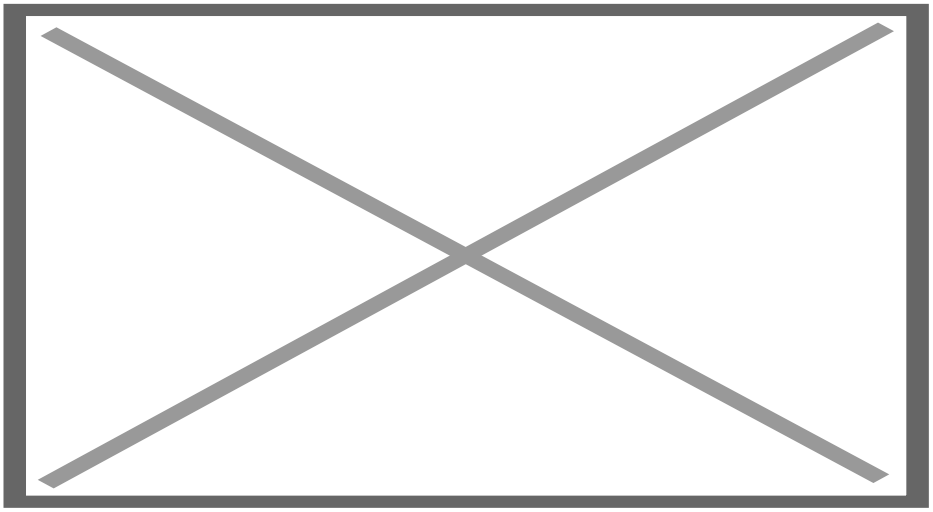
Formation initiale

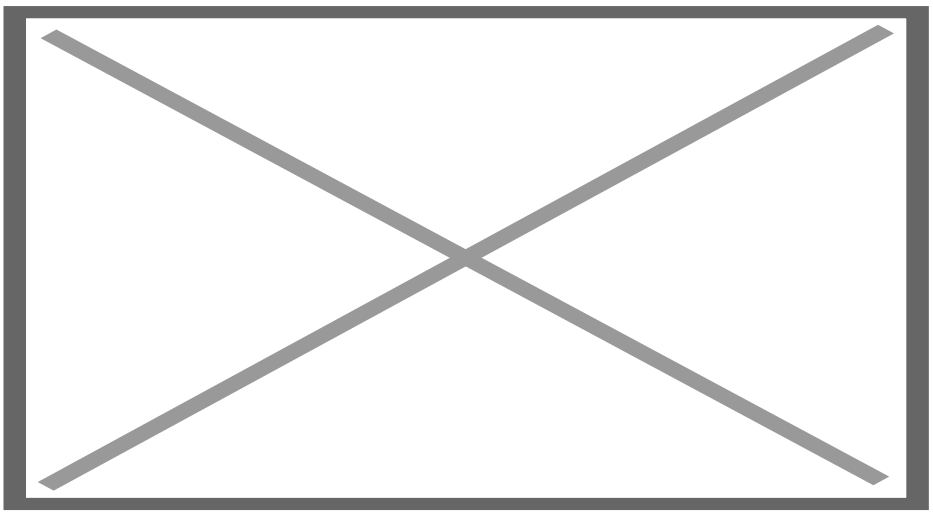
Language(s) of instruction

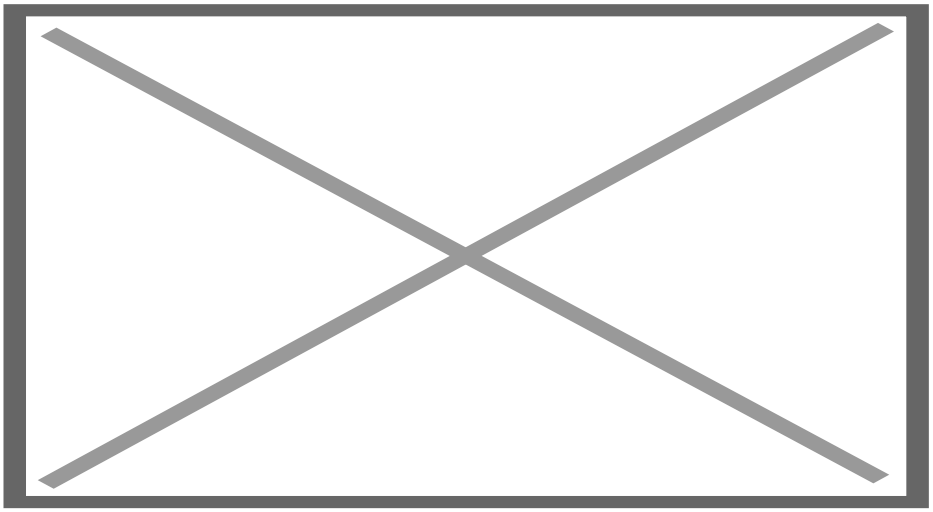
French

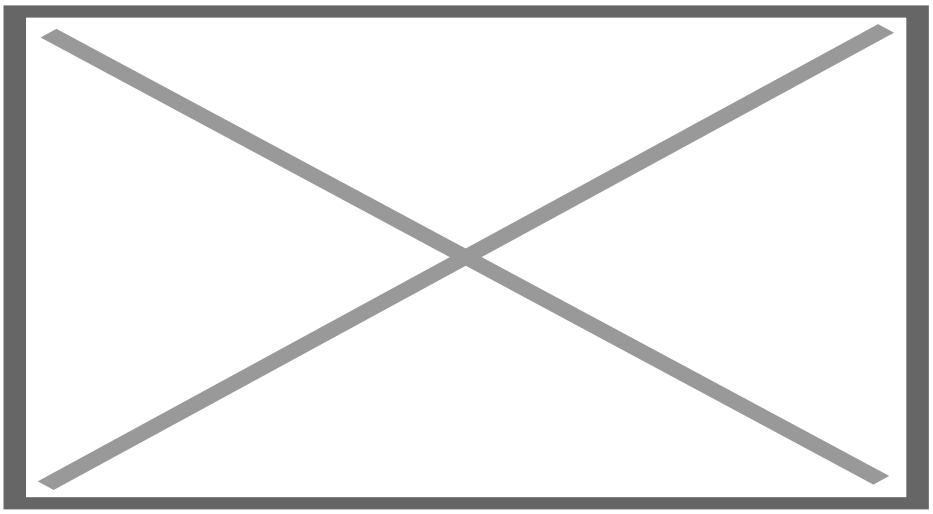
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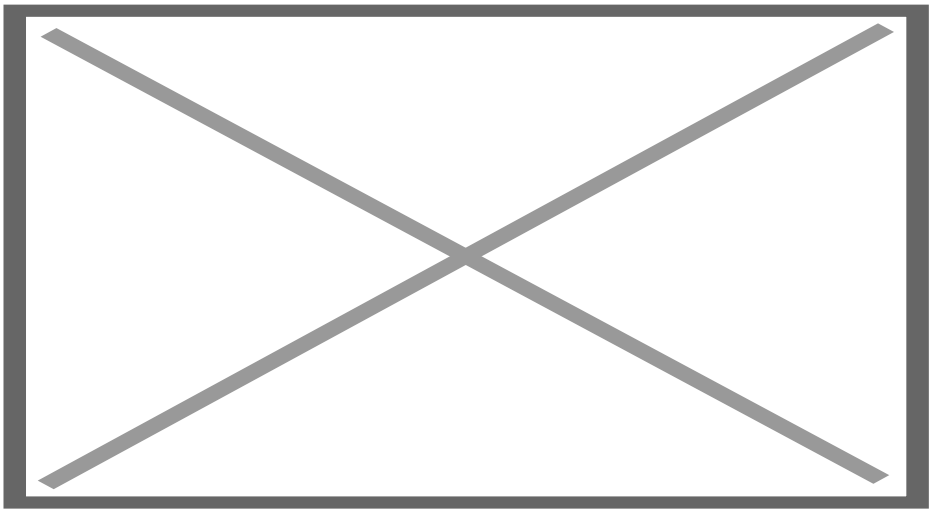
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Information

- Overview
- Application requirements
- Schedule

Présentation

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)
After a Master's + PhD: researcher or lecturer
design study engineer
Design engineer industry / public research
Research & Development Engineer
Research and Innovation Manager
Research professions
Lecturer (after a PhD)
Research Engineer

Further Study Opportunities

PhD
Engineering, research and development
Engineering methods and industrialisation
In particular, this track prepares students for applied research activities, usually undertaken after a PhD, whether in academia or in R&D.

Calendar

Start of programme (indicative date)
14/09/2026
End of programme (indicative date)
30/09/2027
Admission

Admission Route

Physics
Electronics, Electrical Energy, Control

Capacity

Available Places

30

Période(s) de candidature

Inception Platform

From 15/01/2026 to 15/06/2026

Supporting documents

Compulsory supporting documents

Rank of previous year and size of the promotion.

Copy of identity document.

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.

Additional supporting documents

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

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

Recommendation letters.

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

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	Lecture/practical	directed study/practica class
Electrical actuators	3	Semestre 1	13.5	6	4.5			
Charger le détail Matériaux du Génie électrique	3	Semestre 1	21	3				
Charger le détail Électronique de puissance	3	Semestre 1	21	7.5				
Charger le détail Méthodes d'optimisation	3	Semestre 1	18	6				
Charger le détail Réseaux d'énergie électrique	3	Semestre 1	21	3				
Charger le détail Multi-Physique	3	Semestre 1	24	0				
Charger le détail Electromagnetism and numerical modeling	3	Semestre 1	18	3	3			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practic class
Renewable energy sources and grid integration	3	Semestre 1	27					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practic class
Charger le détail Bureau d'étude ou Projet industriel	6	Semestre 1		6				
Charger le détail Transfert d'énergie sans contact	3	Semestre 1	18		6			
Charger le détail Électronique de puissance avancée	3	Semestre 1	24					
Charger le détail Risques électrostatiques, décharges et arc électriques	3	Semestre 1	24					
Charger le détail Actionneurs non conventionnels	3	Semestre 1	15		9			
Charger le détail Machine Learning pour la maîtrise de la consommation électrique	3	Semestre 1	12	12				
Charger le détail Compatibilité électromagnétique des systèmes électroniques de puissance	3	Semestre 1	21		3			
Charger le détail Modélisation des pertes dans les actionneurs	3	Semestre 1	9	6	11			
Charger le détail UE libre S1	3	Semestre 1						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Commande et résilience des systèmes électriques	3	Annualisé	10	4	16			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
Introduction to research	3	Semester 2							
Charger le détail									
Participation à des séminaires et conférences	1	Semestre 2							
Charger le détail									
Gestion de projet	2	Semestre 2	12	12					
Charger le détail									
Anglais	2	Semestre 2	24						
Charger le détail									
UE libre catalogue S1 et S2	2.5	Semestre 2							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	22	Semestre 2							
Charger le détail									

Teaching Location(s)

ORSAY
GIF SUR YVETTE

Contact

- **Frédéric Mazaleyrat**

  PR

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-physique-et-ingenierie-de-lenergie-pie-systemes-electriques-pour-lenergie-et-la-mobilite