Université Paris-Saclay
Sciences de l’ingénierie et des systèmes
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# Energy

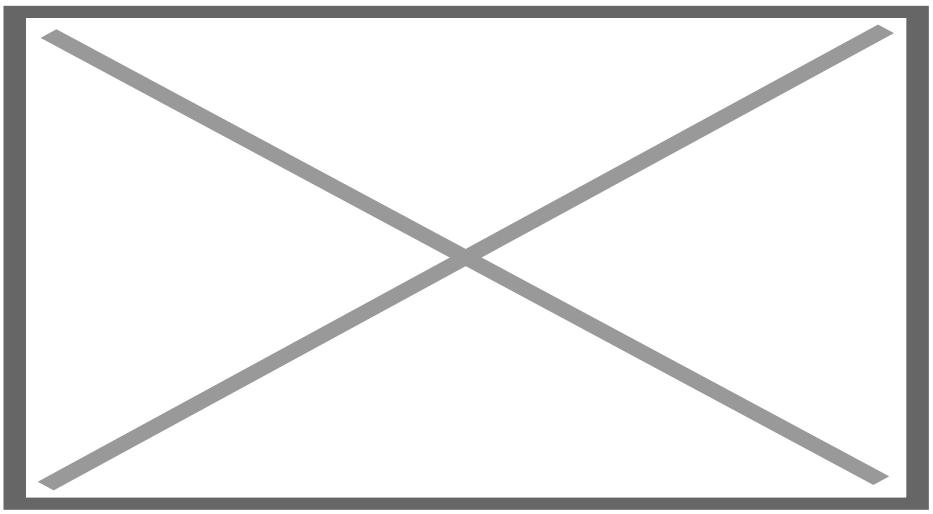
Master's degree
Language(s) of instruction
French

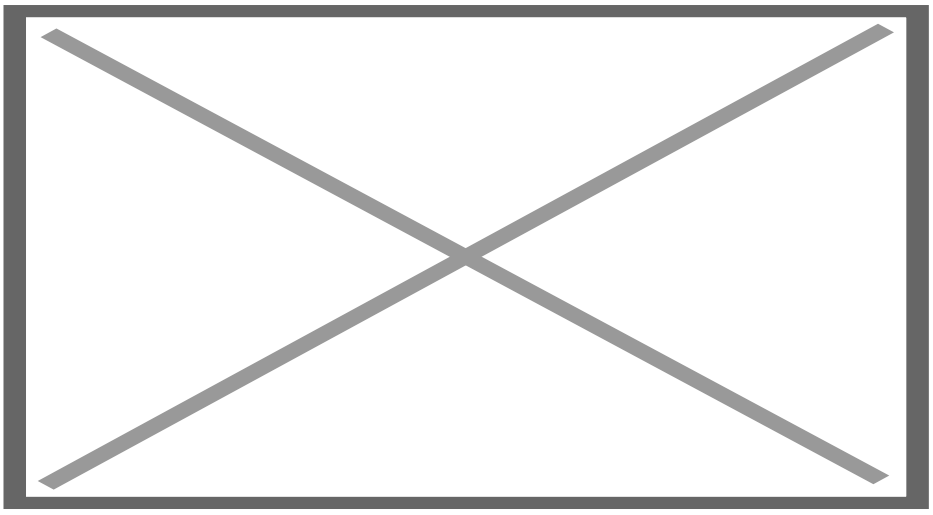
The course is dedicated to renewable energies (production, distribution, storage) and their applications

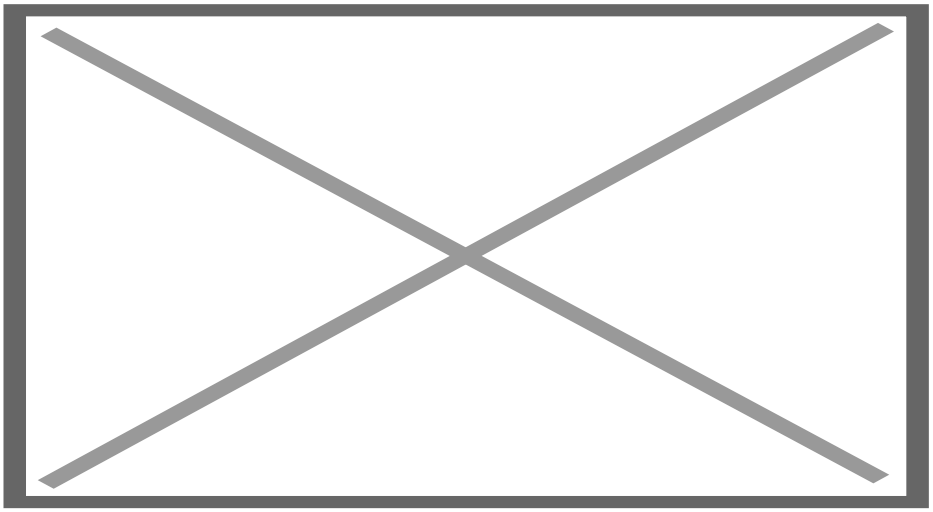
For the first year (M1), 2 general courses are proposed, from which 1 is in English

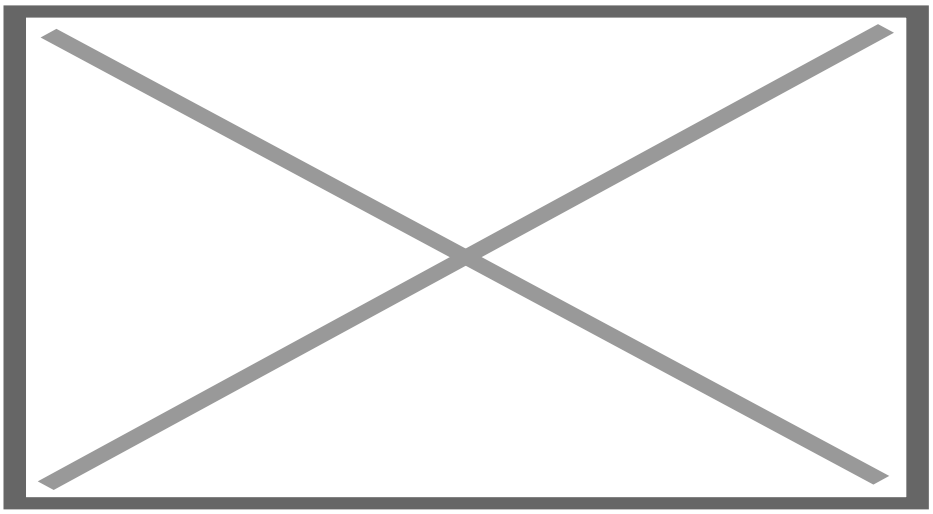
For the second year (M2), 9 specific courses are proposed dealing with mobility, materials or efficiency, from which 1 track in English

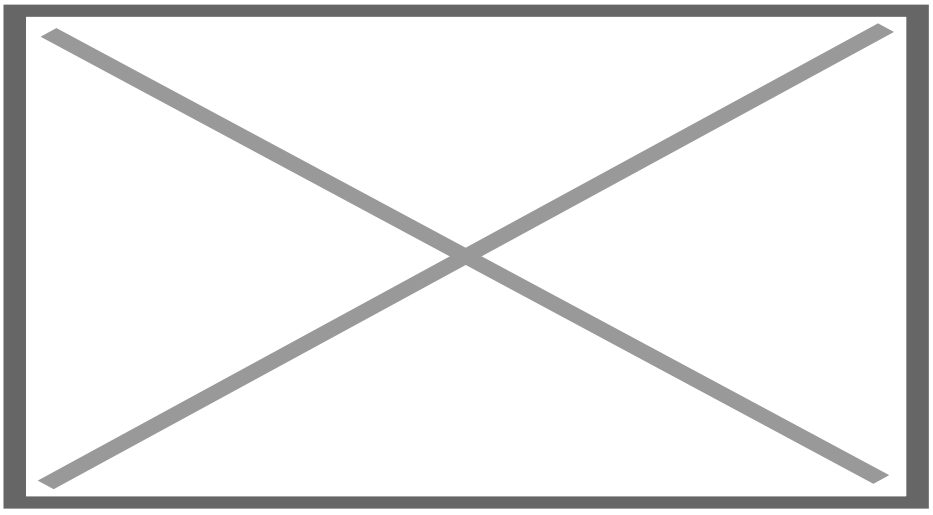
Télécharger la fiche détaillée











# Information

- List of Pathways
- Overview
- Application requirements

Liste parcours

### Master’s Year 1

M1 Energie Matériaux
Add to Compare
M1 Energy - International track
Add to Compare

### Master’s Year 2

M2 Advanced Materials, Structure and Energy for sustainable construction
Add to Compare
M2 Aéronautique et spatial: mécanique, automatique, énergétique
Add to Compare
M2 Electrification et propulsion automobile
Add to Compare
M2 Matériaux, Technologies et Composants: Photovoltaïque - Voiture Electrique
Add to Compare
M2 Physique et ingénierie de l'énergie (PIE) : Nouvelles Technologies pour l'Energie
Add to Compare
M2 Physique et ingénierie de l'énergie (PIE) : Réseaux électriques et énergies renouvelables
Add to Compare
M2 Transfert et conversion de l'énergie
Add to Compare
Présentation

## Skills

- To understand and study an energy problem while refering to documents either written in French or English
- To know the renewable energies with their respective physics behind, their advantages, their limits
- To have orders of magnitude and to know how to dimension according to the needs

Fiche nationale du Répertoire National des Certifications Professionnelles (RNCP)

## Learning outcome targets

The course covers, in a general and cross-disciplinary manner, the field of energy (physics of the many sources, production, conversion, storage, management) and its complex interrelationship with transport in the broadest sense. After all, energy produced must be transported and used. The transport of goods and people itself requires energy and therefore also requires improvements in propulsion methods (electric, hybrid, combustion), energy conversion and storage, and structures (lightness, strength, assembly processes).The themes addressed within the Master’s in energy (innovative materials, new energy technologies, networks, sustainable mobility) are widely covered in the research activities of partner institutions and R&D centres in the region. This course is based on an exceptional network in the field of energy which is at the standard of

the Plateau de Saclay: Two Energy Transition Institutes (IPVF on photovoltaics, VEDECOM on carbon-free mobility) and numerous academic (CNRS, CEA, etc.) and industrial (Renault, PSA, Thales, Safran, EDF, etc.) research laboratories.

Admission

# Target audience

Bachelor in physics, applied physics, chemistry, materials science

# Contact

- **Olivier Plantevin**

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