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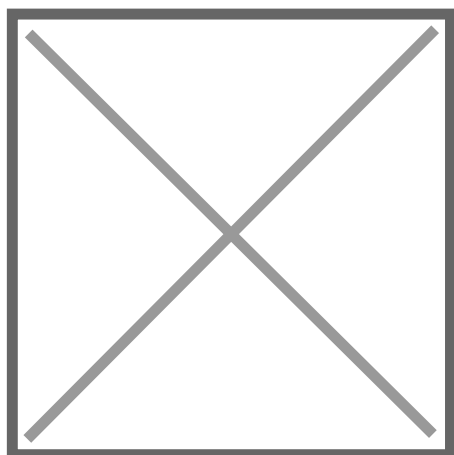
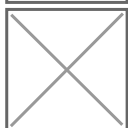
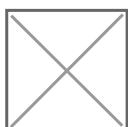
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Energy



Master's degree

Language(s) of instruction

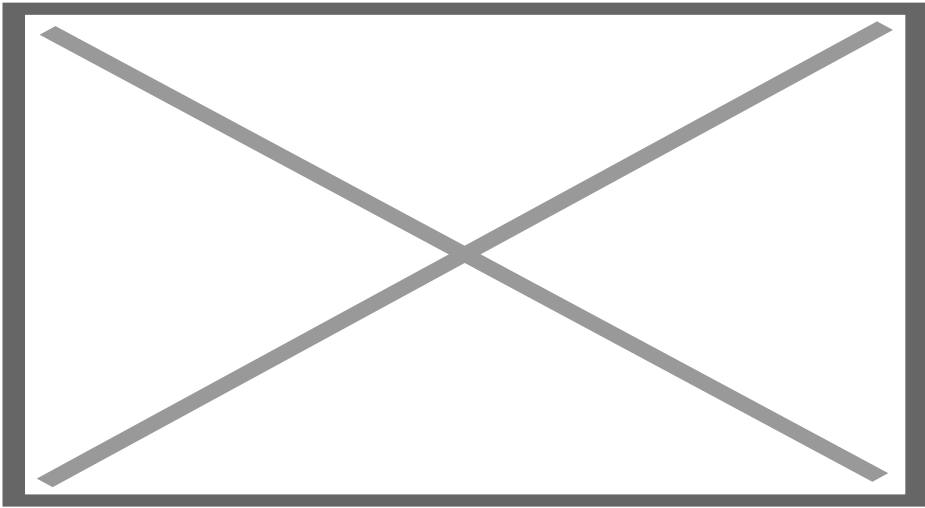
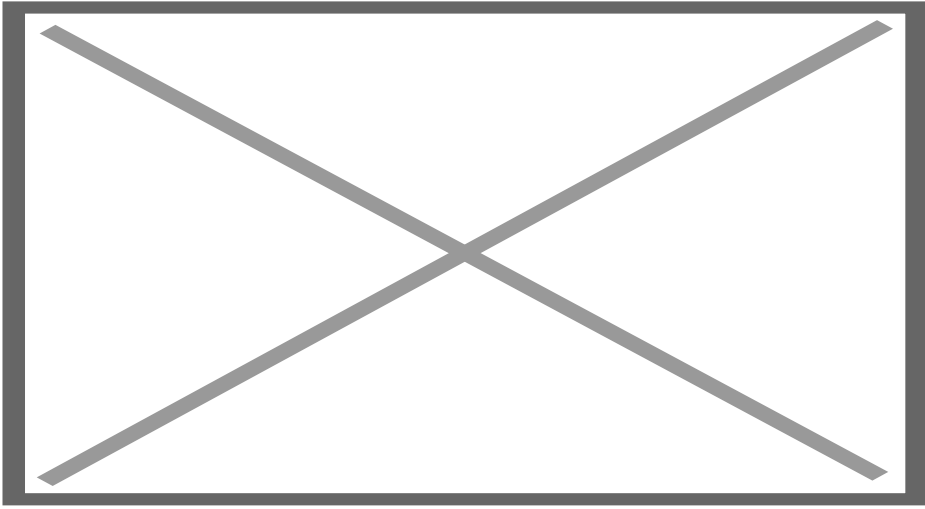
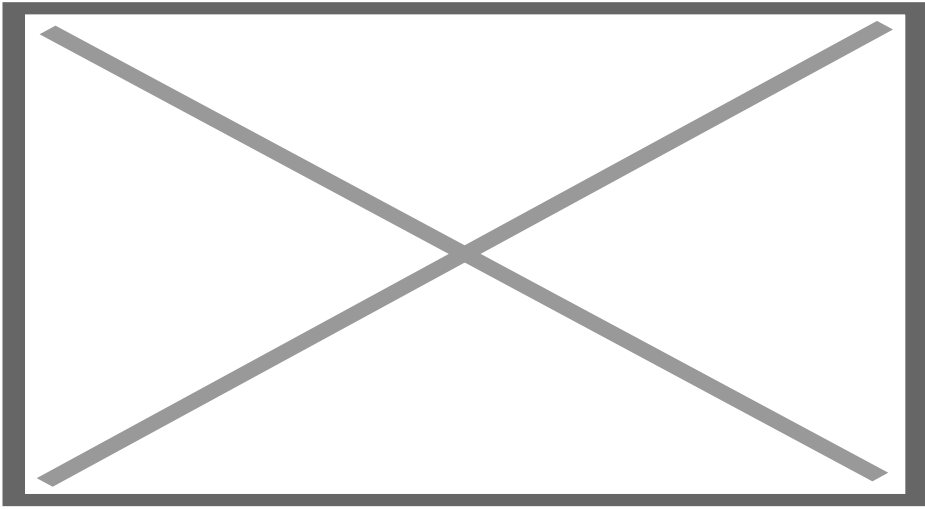
French

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](#)





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Information

- [List of Pathways](#)
- [Overview](#)
- [Application requirements](#)

Liste parcours

Master's Year 1

[M1 Energie Matériaux](#)

Add to Compare

[M1 Energy - International track](#)

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Master's Year 2

[M2 Advanced Materials, Structure and Energy for sustainable construction](#)

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[M2 Aéronautique et spatial: mécanique, automatique, énergétique](#)

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[M2 Electrification et propulsion automobile](#)

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[M2 Matériaux, Technologies et Composants: Photovoltaïque - Voiture Electrique](#)

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[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](#)

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[M2 Transfert et conversion de l'énergie](#)

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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

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Olivier Plantevin

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