Université Paris-Saclay

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Add to Compare

M2 Energy Economics

Master's degree

Specialisation Environmental, Energy and Transport Economics

Enrolment type

Formation initiale

Formation en apprentissage

Language(s) of instruction

English

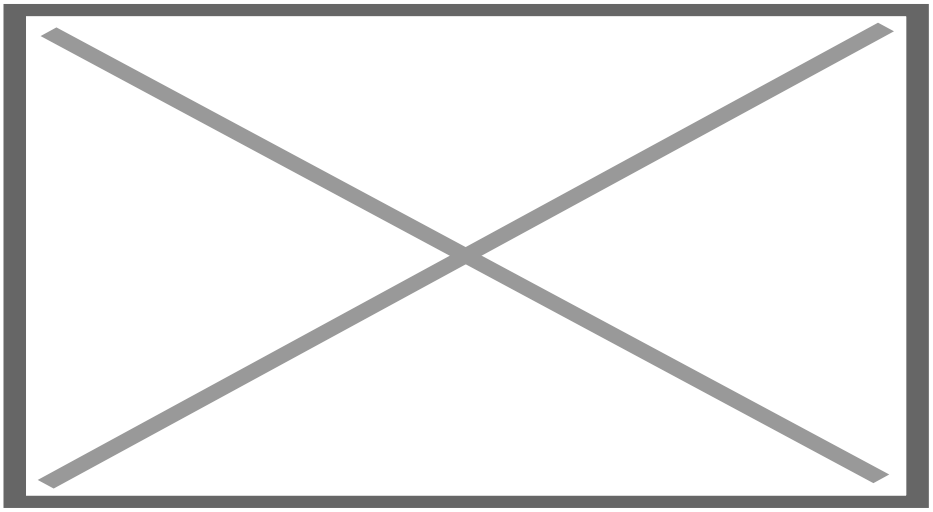
French

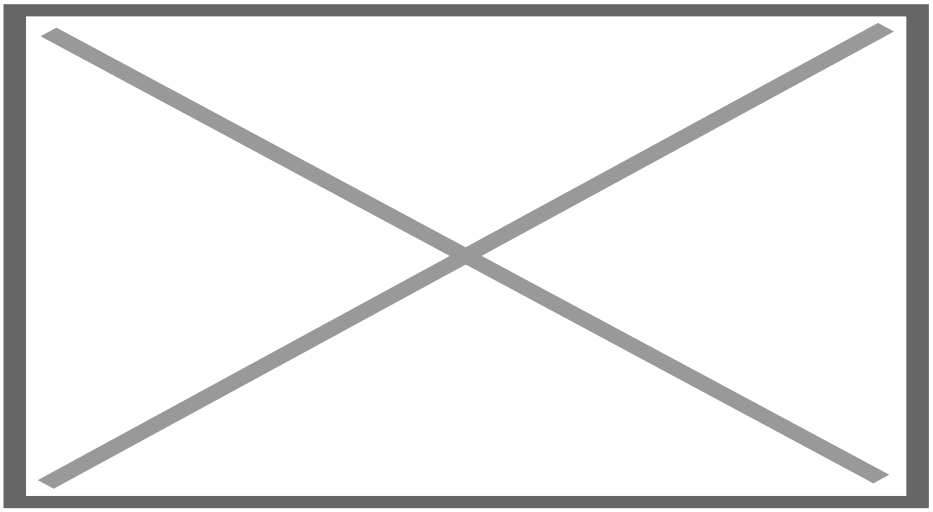
www.master-eeet.fr

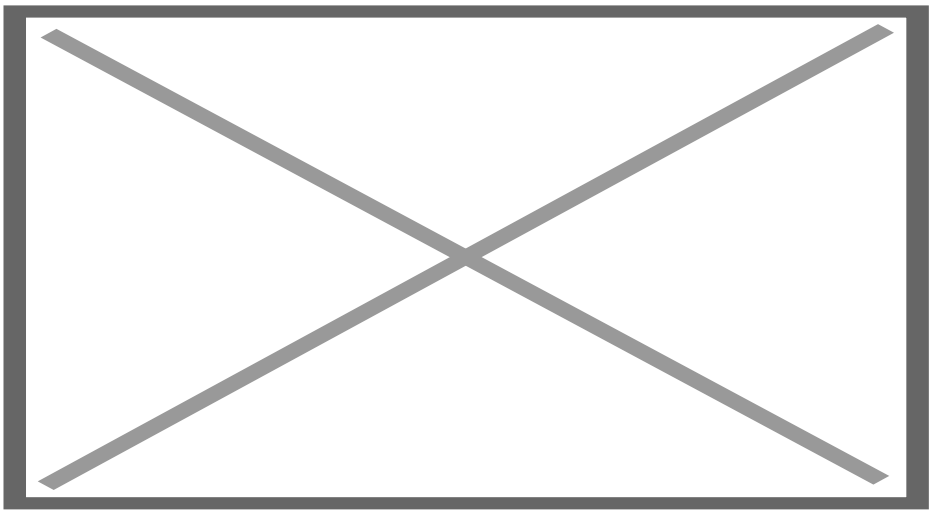
2 semesters, from september to august. 4 months of internship minimum

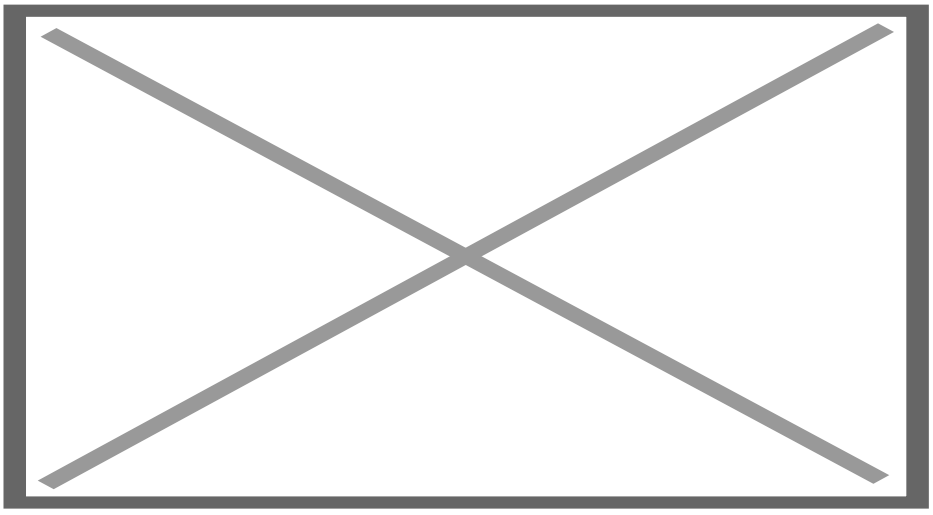
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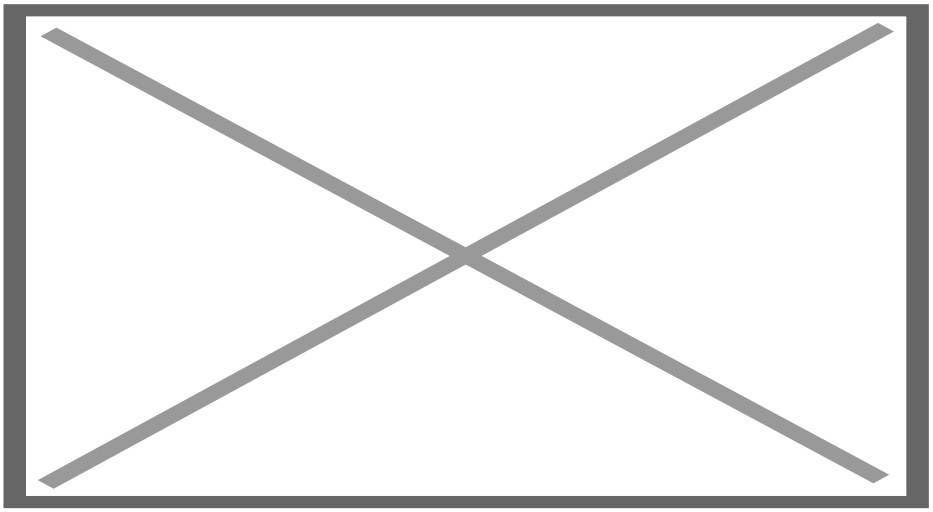
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Respond decisively, using economic analysis and mathematical modelling tools, to a complex problem in the energy sector.

Objectives

The objective of the “Energy Economics” course is to address all the issues linked to the energy transition by mobilizing multidisciplinary analyzes but with an economic prism. Key analyzes are proposed to understand the issues, constraints and problems that energy sectors encounter in their development and/or evolution. The disciplinary fields taught include: fundamental aspects of economics (microeconomics, macroeconomics); statistical and operational research methods (advanced econometrics, optimization applied to energy); the geopolitics of energy; the renewable energy sector; the industrial energy economy; project management and financing; energy and climate. T

Admission

Capacity

Available Places

45

Target Audience and Entry Requirements

Baccalaureat + 4 years, high proficiency in maths, statististics, economics, econometrics

Période(s) de candidature

Inception Platform

From 15/03/2026 to 30/05/2026

Supporting documents

Compulsory supporting documents

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.

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

Additional supporting documents

Rank of previous year and size of the promotion.

Certificate of French (compulsory for non-French speakers).

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

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 study	Lecture/practical class	directed study/practica class
Statistics, probability, regression, tests	0	Semester 1	24					
Charger le détail								
Refreshers course in microeconomics	0	Semester 1						
Charger le détail								
Macroeconomics	0	Semester 1						
Charger le détail								
Sciences de l'environnement et de l'énergie	0	Semestre 1	6					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Analysis of conventional energy systems	3	Semester 1	15					
Charger le détail								
Analysis of Renewable energy and new technologies	3	Semester 1	15	9				
Charger le détail								
Geopolitics of the energy sector	3	Semester 1	24					
Charger le détail								
Corporate finance and capital budgeting	3	Semester 1	15	9				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail Industrial economics applied to the energy sector	3	Semester 1	15	9				
Charger le détail Econometrics	3	Semester 1						
Charger le détail UE libre "Fondamentaux" du cursus ingénieur CentraleSupélec, ENPC, ENSAE ou Mines	3	Semestre 1	20					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Optimization applied to the energy sector	2	Semester 1	15	9				
Charger le détail Analysis of energy markets	2	Semester 1	15	9				
Charger le détail Analysis of the energy demand and efficiency	2	Semester 1	15	9				
Charger le détail Computable general equilibrium modeling	2	Semester 1						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class
UE libre "Méthodes" dans le cursus ingénieur CentraleSupélec, ENSAE, ENPC ou Mines	2	Semestre 1	20					
Charger le détail								
Life cycle analysis in the energy sector	2	Semester 1	15	9				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class
Energy commodity trading	2	Semester 1	15	9				
Charger le détail								
Big data processing and Artificial Intelligence	2	Semester 2	15	9				
Charger le détail								
Project design and management in energy sector	2	Semester 2	18	9				
Charger le détail								
Analysis of the energy sector companies strategies	2	Semester 2	21					
Charger le détail								
Project financing and new technology financing: Contractual structure & risk management	2	Semester 2	15	9				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Renewable energies, energy storage and Smart Grid Charger le détail	2	Semester 2	15	9				
Price formation in energy utility sector Charger le détail	2	Semester 2	15	9				
Economic and financial evaluation of renewable energy projects: investor’s point of view Charger le détail	2	Semester 2	18	9				
Climate economics Charger le détail	2	Semester 1						
UE libre "Cours thématiques" du cursus ingénieur CentraleSupélec, ENPC, ENSAE ou Mines Charger le détail	2	Semestre 1	20					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Energy transition and prospective approach Charger le détail	2	Semester 1	15	9				
Modelling ecological sustainability using system dynamicscs Charger le détail	2	Semester 1	15	9				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Economic instruments and models for decarbonization policies Charger le détail	2	Semester 1	15	9				
Investment decision making with uncertainty Charger le détail	2	Semester 1	15	9				
UE libre "Formation par la recherche" dans le cursus ingénieur CentraleSupélec, ENSAE, ENPC ou Mines Charger le détail	2	Semestre 1	20					
Renewable energy optimization Charger le détail	2	Semester 2	15	9				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Epistemologie (Cours CentraleSupélec) Charger le détail	1.5	Semestre 2	20					
Cities and energy Charger le détail	1.5	Semester 2	12					
Geopolitics of energy resources Charger le détail	1.5	Semester 2	12					
Law of renewable energy Charger le détail	1.5	Semester 2	15					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Negociation seminar	1.5	Semester 2		12				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
UE libre "Ouverture" du cursus ingénieur CentraleSupélec, ENPC, ENSAE ou Mines	1.5	Semestre 2	20						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Mémoire de master (cursus classique)	24	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Langue vivante (anglais)	3	Semestre 2	21						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Validation TOEIC, TOEFL ou équivalent	1	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Rappels de statistique (cursus apprentissage)	1	Semestre 1	24					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Rappels de microéconomie (cursus apprentissage)	1	Semestre 1	18					
Charger le détail								
Rappels de mathématiques : optimisation (cursus apprentissage)	1	Semestre 1	24					
Charger le détail								
Rappels de macroéconomie (cursus apprentissage)	1	Semestre 1	24					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
Analysis of conventional energy systems	3	Semester 1	15						
Charger le détail									
Analysis of Renewable energy and new technologies	3	Semester 1	15	9					
Charger le détail									
Geopolitics of the energy sector	3	Semester 1	24						
Charger le détail									
Corporate finance and capital budgeting	3	Semester 1	15	9					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class	di le c
Industrial economics applied to the energy sector	3	Semester 1	15	9					
Charger le détail									
Econometrics	3	Semester 1							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class	dis lea co
Energy commodity trading	2	Semester 1	15	9					
Charger le détail									
Big data processing and Artificial Intelligence	2	Semester 2	15	9					
Charger le détail									
Project design and management in energy sector	2	Semester 2	18	9					
Charger le détail									
Analysis of the energy sector companies strategies	2	Semester 2	21						
Charger le détail									
Project financing and new technology financing: Contractual structure & risk management	2	Semester 2	15	9					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
Charger le détail									
Renewable energies, energy storage and Smart Grid	2	Semester 2	15	9					
Charger le détail									
Renewable energy optimization	2	Semester 2	15	9					
Charger le détail									
Price formation in energy utility sector	2	Semester 2	15	9					
Charger le détail									
Economic and financial evaluation of renewable energy projects: investor’s point of view	2	Semester 2	18	9					
Charger le détail									
Climate economics	2	Semester 1							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dist lea co
Cities and energy	1.5	Semester 2	12						
Charger le détail									
Geopolitics of energy resources	1.5	Semester 2	12						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dist lea co
Charger le détail									
Law of renewable energy	1.5	Semester 2	15						
Charger le détail									
Negociation seminar	1.5	Semester 2		12					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Travail en entreprise (cursus apprentissage)	10	Semestre 1							
Charger le détail									
Mémoire de master et soutenance orale devant jury (cursus apprentissage)	20	Semestre 2							
Charger le détail									

Teaching Location(s)

ST AUBIN
RUEIL MALMAISON

Contact

- **Frédéric Lantz**
- **Jean-Christophe Bureau**

http://www.universite-paris-saclay.fr/formation/master/economie-de-lenvironnement-de-lenergie-et-des-transports/m2-economie-de-lenergie