UNIVERSITÉ SAVOIE MONT BLANC

SCIENCES, TECHNOLOGIES, SANTÉ

Solar energy, law, economics and management (Droit, économie et gestion pour énergie solaire)

Master Energie solaire (Solar energy)

Durée
2 années, 4 semestres

Langues d'enseignement
Anglais

Mots-clés
Energy Economics and Law, Management and Administration, Energy and Environmental Transition, Solar Energy

Présentation

GRADUATE SCHOOL SOLAR ACADEMY

The Master program **SoLEM: Solar Energy, Law, Economics and Management**, is a highly innovative, new degree program preparing to tackle present and future challenges of the energy transition. It is a part of Solar Academy Graduate School recently awarded to University of Savoie Mont Blanc (USMB).

The Master program SoLEM is a two-year full-time Master's degree, composed of 4 semesters representing a total of 120 ECTS (officially integrated in the European Bologna system of higher education).

This master program is jointly developed by the School of Engineering (Polytech Annecy-Chambery), School of Business and Administration (Institut d'Administration des Entreprises IAE Savoie Mont Blanc) and School of Law (Faculté de Droit) at USMB.

Located on the Bourget-du-Lac Campus of INES (National Institute for Solar Energy), you will participate in high quality education and multidisciplinary projects, stimulating your creativity and entrepreneurial skills.

Objectifs

The core training, based on economics, management and law, provides knowledge on how to apply the main

tools of economic analysis and develop an in-depth understanding of the energy transition, including its relationship with public policies, industrial transformations, business models, legal concepts and tools specific to the renewable energy sector, in particular solar energy.

Dimension internationale

Courses are taught, in English, by international experts and highly recognized partners from national and international research institutions and industry as well as by academic staff of USMB.

Disciplinary and international mobility, as well as immersion in an international research environment, are an integral part of the curriculum, bringing added value to students in terms of training and research. Grants for international mobility, awards for best projects as well as scholarships awarded for excellent academic results are available.

Les atouts de la formation

Innovative multidisciplinary education offers common introduction to economics and law, focusing on environmental economics and energy law (important challenges in the energy transition), and to engineering sciences, focusing on solar energy (highly growing sector of renewable energy) and on energy efficiency in building sector (responsible for over 40% of world primary energy consumption)

Projects and workshops complement this unique teaching experience.

M1 internship of 2 months.
Mandatory M2 internship of 6 months (February to July).

Excellence scholarships will be awarded to selected candidates, and funded by the Solar Academy Graduate School, in order to attract students with an excellent academic level and a real motivation (more information on the website).

Organisation

Effectifs attendus

12 students in M1 (2021)

Aménagements d'études

https://www.univ-smb.fr/en/formation/amenagements-specifiques/

Admission

Conditions d'admission

Bachelor’s degree in economics and/or management, AES, law, geography and development.

Et après

Poursuite d'études

Ph.D. in Economics, Management, for solar energy deployment and energy efficiency,PhD in Energy Law within the Solar Academy Grduate Program or at a French university.

Poursuite d'études à l'étranger

Ph.D. in Economics, Management, for solar energy deployment and energy efficiency,PhD in Energy Law in a foreign university.

Insertion professionnelle

The objective of the SoLEM Master program is to train future researchers and senior executives from public or private institutions and companies. Firms from the energy sector, consultancy offices, government regulation offices as well as NGOs are interested in candidates with a dual set of skills, such as the ones you will develop in the SoLEM Master program.

Métiers visés et insertion professionnelle

Administrative and support service activities | Specialised, scientific and technical service activities | Modelling activities | Specialised, scientific and technical service activities

Infos pratiques

Contacts

Gestionnaire administratif

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Etablissements partenaires

Partners of the Solar Academy Graduate School
https://www.univ-smb.fr/solaracademy/partnerships/

Autres structures partenaires

Partners of the Solar Academy Graduate School

Campus

Le Bourget-du-Lac / campus Savoie Technolac

UNIVERSITÉ SAVOIE MONT BLANC

Programme

M1 - Solar energy, law, economics and management

Semestre 7

	Nature	CM	TD	TP	Crédits
UE701 Core Law	UE				4 crédits
Bases of business law	EC	10,5h			2 crédits
Bases of contract law	EC	10,5h			2 crédits
UE702 Core Economics	UE				4 crédits
Environmental economics and Externalities	EC	21h			2 crédits
Economics of energy and climate policies	EC	21h			2 crédits
UE703 Quantitative analysis	UE				4 crédits
Advanced data analysis	EC	15h	15h		2 crédits
Introduction to econometrics	EC	19,5h	10,5h		2 crédits
UE704 Introduction to Solar Energy	UE				4 crédits
Solar Thermal and Photovoltaïc	EC	12h	4,5h		2 crédits
Projet	EC			4h	2 crédits
UE705 Sustainability for energy transition	UE				8 crédits
International regulations	EC	9h	4,5h		2 crédits
SEMINARS solar 1	EC	15h			2 crédits
Sustainability analysis	EC	9h	6h	9h	2 crédits
Foreign language choice	CHOIX				
Foreign language (French)	EC		30h		2 crédits
Foreign language English	EC		30h		2 crédits
Foreign language Other	EC		30h		2 crédits
UE706 Introduction to research	UE				6 crédits
Library research tools and methods	MODULE		4h		
Literature review project	EC	6h		24h	6 crédits

Semestre 8

	Nature	CM	TD	TP	Crédits
UE801 Market and Energy Prices	UE				4 crédits
Price dynamic modelling	EC	12h	9h		2 crédits
International energy markets	EC	21h			2 crédits
UE802 Adoption of renewables	UE				3 crédits
Basics of finance fo project management	EC	21h			2 crédits
Adoption of environmental innovations	EC	10,5h			1 crédits
UE803 Urban planning and city	UE				2 crédits

Innovation in energy sector	EC	15h			1 crédits
Urban Law, urban planning and territorial development	EC	18h			1 crédits
UE804 Energy transition and public policies	UE				3 crédits
Public policies assessment in econometrics	EC	10,5h			2 crédits
Fiscal law and solar energy	EC	9h			1 crédits
UE805 Introduction to Energy use in Buildings and Cities	UE				4 crédits
Energy use in Buidlings	EC	6h	15h		3 crédits
Sustainable Urban Energy	EC			4h	1 crédits
UE806 Energy Environment and Society	UE				6 crédits
European regulations	EC	9h	4,5h		2 crédits
SEMINARS Solar 2	EC	18h			2 crédits
Foreign language choice	CHOIX				
Foreign language (French)	EC				2 crédits
Foreign language English	EC				2 crédits
Foreign language Other	EC				2 crédits
UE 807 Innovation, creativity and research	UE				8 crédits
Creativity through biomimicry for solar cities	EC		22h		2 crédits
Research project	EC			24h	6 crédits
Optional Internship/Work placement	MODULE				

M2 - Solar energy, law, economics and management

Semestre 9

	Nature	CM	TD	TP	Crédits
UE901 Advanced Business Models	UE				4 crédits
Legal regim for production and use for solar electricity	EC	18h			2 crédits
New Business models in energy industry	EC	18h			2 crédits
UE902 Energy Efficiency and development	UE				4 crédits
Energy efficiency in buildings	EC	18h			2 crédits
Empirical case studies in energy efficiencies	EC		12h		2 crédits
UE903 Energy transition and development	UE				4 crédits
Longitudinal data models	EC	9h	9h		2 crédits
Energy and sustainable development law	EC	9h			2 crédits
UE904 Smart grids and smart city	UE				4 crédits
Optimization of energy system	EC	9h	9h		2 crédits
Smart grids and smart cities	EC	18h			2 crédits
UE905 Urban development	UE				6 crédits
Case study common project	EC	9h	10,5h	16h	2 crédits
Urban planning and architectural integration	EC	10h		3h	1 crédits
Performance indicators and information processing	EC	6h	12h		1 crédits
Foreign language choice	CHOIX				

Foreign language (French)	EC		30h		2 crédits
Foreign language English	EC		30h		2 crédits
Foreign language other	EC		30h		2 crédits
UE906 Research and innovation project	UE				8 crédits
Research project	EC	6h		20h	6 crédits
Entrepreneurship, innovation challenge	EC	6h		4h	2 crédits

Semestre 10

	Nature	CM	TD	TP	Crédits
UE001 Internship	UE				30 crédits
Internship	EC				30 crédits