

Optimization of energy system (ECON958_SOLEM)



En bref

- › **Langues d'enseignement:** Anglais
- › **Méthodes d'enseignement:** En présence
- › **Forme d'enseignement :** Travaux pratiques
- › **Ouvert aux étudiants en échange:** Oui

Présentation

Description

- Semester 9
- Duration : Within one semester
- Type: Mandatory
- Student workload: Lecture (CM): 12 hours, Tutorials (TD): 9 hours
- Applicability: SOLEM course only
- Teaching and learning method : seminar, case studies, discussion
- Module examination: 1 written exam (100%)

Responsible person for the module: Pierre OUEDRAOGO, Doctoral researcher at French Environment and Energy Management Agency (ADEME), IREGE laboratory, IAE, USMB

Ph.D in economics - Research fields: Circular Economy, Repair, Reuse, Recycling, Life Cycle Assessment, Public Policies, Electrical and Electronic Equipment

Thesis: Levers of the circular economy : are they complementary? [Personal Website](#)

Objectifs

Major intended learning outcomes:

Upon completion of the module students will:

- understand how a firm makes cost-minimizing decisions and how its cost varies with its output.
- have learnt how a competitive firm chooses its output in short and long term.
- be able to apply the theory of microeconomics in energy system.
- understand and identify the main differences between the different markets form.
- have learnt how oligopolistic firms decide on output and prices.
- understand why Cartels rises and what successful cartelization require?
- be able to make analysis of cartel pricing

Heures d'enseignement

CM	Cours Magistral	9h
TD	Travaux Dirigés	9h

Pré-requis obligatoires

Admission to 2nd semester

Plan du cours

Content of the module:

- Introduction: General context and course outline
 - Chapter 1: The Theory of the Firm
 - Chapter 2: The Firm in Perfectly Competition Market
 - Chapter 3: Market Power: Monopoly and Monopsony
 - Chapter 4: Monopolistic competition and Oligopoly
 - Chapter 5: The Cartels
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Bibliographie

Textbooks:

- Roberts S. Pindyck and Daniel L. Rubinfeld «Microeconomics» – 8th edition (The Pearson series in economics)
- Jean-Pierre Hansen, Jacques Percebois «Energie#: Economie et Politiques#» 3ième édition (deboeck)

Websites:

- <https://www.bbc.com/news/business-61188579>
- https://www.francetvinfo.fr/monde/environnement/cop/cop28-les-pays-exportateurs-de-petrole-realisent-qu-ils-perdent-le-contrôle-analyse-un-participant-apres-la-lettre-de-l-opep-contre-un-accord-sur-la-sortie-des-energies-fossiles_6233085.html

- <https://www.geo.fr/geopolitique/quest-ce-que-lopep-organisation-des-pays-exportateurs-de-petrole-214045>

Compétences acquises

Macro-compétence

Micro-compétences

Infos pratiques

Contacts

Responsable du cours

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Lieux

› Le Bourget-du-Lac (73)

Campus

› Le Bourget-du-Lac / campus Savoie Technolac