

- Faculté des sciences économiques
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Innovation and Technology Policies (5ZZ2011)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en économie appliquée	Cours: 2 ph	Voir ci-dessous	3
Master of Arts en innovation, orientation Innovation et société	Cours: 2 ph	Voir ci-dessous	3
Master of Law en innovation	Cours: 2 ph	Voir ci-dessous	3
Master of Science en innovation	Cours: 2 ph	Voir ci-dessous	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Printemps

Equipe enseignante

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The lectures focus on a set of questions at the heart of current research on the economics of innovation:

- How does technological innovation contribute to economic growth?
- What policy instruments do governments use to promote innovation, and its underlying science and technology?
- How does technological innovation interact with market forces, management strategy and government policies to create new industries and reshape existing ones?
- Why do firms often cluster geographically? Is public support of cluster policies effective in promoting innovation, especially is it delivering tangible economic and innovative impacts?
- What is the role of intellectual property rights in the innovation system? What is the difference between open source and proprietary R&D?
- How do the creative process operate?

The course is interactive and students are invited to participate actively in class discussions. Prior readings will be required.

Forme de l'évaluation

Project (50 %): team project/ lead class discussion (2*25%). Teams of 2-4 will explore science & technology policy debates in which there is no right or wrong answer. They will be assigned readings on their topic upon which they will prepare their presentation, present pros and cons for 20-30 minutes, and then lead class discussion. There is no right or wrong answer. A small research centered on policy debates will be required by the students (+5%).

2h written exam during the exam session at the end of the semester (50%)

Retake: 2-hour written exam during the exam session (100%).

Open book policy during the exams. In case of violation of these rules, the students are in situation of fraud and the unauthorized items will be removed. The exam could be deemed as failed.

Documentation

There is no specific textbook for the course. We rely on original sources such as scientific journal articles, book extracts and technical reports from international organizations. Whenever possible, readings will be made available on the Moodle platform prior to their discussion in class.

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Communicate basic innovation policies

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- Use complex innovation models
- Illustrate how technological changes affect industrial organisation
- Discuss the literature on innovation
- Explore cluster policies
- Criticise the silicon valley model
- Apply basic public economics tools to innovation studies
- Evaluate national innovation policies

Compétences transférables

- Develop hands-on, pro forma modelling skills using Excel
- Provide a substantiated recommendation
- Discuss complex issues