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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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Contenu

The course is divided into three parts. A general introduction will first provide a definition of innovation and technology policies and explain their purpose, before explaining the role of the state in the economy, the problematic of state interventions and the meaning of public goods. The second part will focus on the Swiss research and innovation system. After a short presentation of the general context, we'll study first the research and innovation funding and actors, and the different instruments and measures of research and innovation promotion. We'll then have a closer look on Swiss research and innovation in international comparison, the research and innovation activities of SMEs and multinationals in Switzerland, and the supply and demand in public innovation promotion. Finally, in the third part, we'll examine the EU innovation and technology policy. In particular, we'll analyse the general principles of EU industrial policy, its policy for research and technological development, its innovation policy, and S&T cooperation with other countries.

Forme de l'évaluation

The evaluation is based on two criteria: A project work (50%); team project/lead class discussion; teams of 2-3 will critically explore science and technology policy topics; the time for oral presentations (including discussion time) will be limited to maximum 30 minutes. 2 hours written exam during the exam session at the end of the semester (50%).
Retake: 2 hours written exam during the exam session (100%).
The exams cover all the material covered in the course. No documentation is allowed.
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.

In case of online exam session (for sanitary reasons), the written exams will be 60 minutes, open book.

Documentation

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

Pré-requis

None.

Forme de l'enseignement

2 hours course. The course is given interactively relying on the students' active participation in class.

Objectifs d'apprentissage

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

- Use wisely different science and technology indicators
- Analyse and critically discuss innovation policies
- Illustrate the importance of innovation and technology policies
- Communicate ideas efficiently, in a rigorous but accessible way

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- Recommend innovation and technology policy measures based on balanced judgements

Compétences transférables

- Present a grounded and eclectic critical analysis
- Identify the issues and multiple interactions characterizing a problem
- Discuss complex issues
- Provide a substantial recommendation