MGT-641(c)

Technology and Public Policy - (c) Technology, intellectual property and innovation policy

de Rassenfosse Gaétan, Various lecturers

Cursus	Sem.	Type
EDOC General and external courses		Obl.

Language of teaching	English
Credits	2
Session	
Exam	Term paper
Workload	60h
Hours	**28**
Courses	28
Number of positions	**20**

Summary

The class will provide information about what STI support tools exist and why, will explain the rationales and best practices for STI policy intervention and will provide with a sound understanding of why taxpayer money should be used â## and how â## to finance STI activities.

Content

Tentative Outline

1. Introduction [1 hour]
   - a. Motivation
   - b. Definitions
   - c. Group project guidelines

2. Key theoretical concepts [5 hours]
   - a. The Solow residual
   - b. Knowledge as a public good
   - c. Externality
   - d. Market failure
   - e. Paradox of disclosure
   - f. Knowledge spillover

3. Rationales for STI policy [1 hour]
   - a. The neoclassical view
   - b. The innovation system view

4. Principles of a good policy intervention [1 hour]
   - a. A clear “failure” to solve
   - b. No distortion
   - c. Predictability

5. Conducting impact evaluation studies [3 hours]
   - a. Natural experiments
   - b. Matching method
   - c. Difference – in - differences
   - d. Regression discontinuity design

6. What tools exist (and evidence) [5+3+2 hours]

- a. Cluster policies
- b. Public funding of universities and PROs
- c. Grants (universities, companies; individual, collaboration)
- d. R&D subsidies
- e. Tax credits
- f. Patents (external guest: Julio Raffo from WIPO)
- g. Innovation vouchers
- h. Public procurement (external guest: Emilio Raiteri from EPFL)

Note

Target audiance
The class is targeted at all EPFL PhD students and post--#docs, regardless of whether they want to stay or leave academia/research and regardless of whether they have background training in economic/econometrics. For students who plan to stay in academia/research, the class will provide information about what STI support tools exist and why. For students who plan to leave academia/research to work in policy, the class will explain the rationales and best practices for STI policy intervention. For the other students, the class will provide them with a sound understanding of why taxpayer money should be used – and how – to finance STI activities.

Keywords

Policies for the knowledge economy; Policy evaluation; Science of Science; Intellectual Property; Entrepreneurship.

Resources

Bibliography

Handbook of the Economics of Innovation, Vols. 1&2 (ISBN : 9780444519955);
The Science of Science Policy: A handbook (ISBN: 9780804770781)

Ressources en bibliothèque

- Handbook of the Economics of Innovation vol.1
- Handbook of the Economics of Innovation vol.2
- The science of science policy / Husbands

Websites

- https://www.innovationpolicyplatform.org/