Transitions and technology policy

Foray Dominique				
Cursus	Sem.	Туре	Language of	English
Energy Science and Technology	MA1, MA3	Opt.	teaching Credits Session Semester Exam	Ligion
Management, Technology and Entrepreneurship minor	Н	Opt.		2 Winter Fall During th semeste
Managmt, tech et entr.	MA1, MA3	Opt.		
Minor in Engineering for sustainability	Н	Opt.		
			Workload Weeks	60h 14

Language of	English		
teaching			
Credits	2		
Session	Winter		
Semester	Fall		
Exam	During the		
	semester		
Workload	60h		
Weeks	14		
Hours	2 weekly		
Courses	1.5 weekly		
Number of			
positions			

Remark

MGT-408

Special schedule. See the MTE website: https://go.epfl.ch/mte

Summary

This course addresses the issue of designing innovation strategies and technology policies to support transitions towards sustainable development goals

Content

We present a general framework of analysis based on the notions of positive and negative externalities and market failures. Based on this framework various types of interventions by the State are explored in order to achieve sustainable development goals. These interventions involves promoting innovation, changing the economy, involving society and establishing better rules for policy.

Keywords

Mission innovations Rate and direction of technical changes Productivity Green growth Innovation policies Push and pull mechanisms to promote innovation Externalities Policy monitoring and evaluation

Learning Prerequisites

Recommended courses Principles of microeconomics (A.Mack)

Learning Outcomes

By the end of the course, the student must be able to:

- Define the key concepts of externalities
- Choose appropriate policy tools
- Assess / Evaluate national innovation policies
- Develop a policy roadmap

Transversal skills



- Access and evaluate appropriate sources of information.
- Make an oral presentation.
- Plan and carry out activities in a way which makes optimal use of available time and other resources.

Teaching methods

formal lectures interactive sessions - team work - student presentations

Expected student activities

preparation of oral presentation writing a document

Assessment methods

continuous assesslent combining 25% indivdual work 75% final project

Resources

Bibliography to be provided at the first session