

NIVEAU MASTER

MENTION IES PARCOURS DI

INNOVATION ET DYNAMIQUE INDUSTRIELLE (20H) / SEMESTER 1

ENSEIGNANT :

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OBJECTIFS DE L'ENSEIGNEMENT :

The course provides an overview of the main developments and challenges in economics of innovation and industrial dynamics. The course discusses the processes driving innovation within firms by relying on the evolutionary approach. After defining the concepts of invention and innovation, it identifies the sources of innovation discussed through the lens of the "linear" and the "chain-linked" model. Particular attention is devoted to the role played by basic research in the innovation process. Then, the course examines innovation at the sectoral level and how innovation affects the dynamics and the evolution of industries. The course describes the life cycles of different industries and the role of technological regimes in shaping the industry structure. The course concludes with an overview of the intellectual property rights. The evaluation bases on a final written exam and on the student participation during classes. The course will be taught in French.

PRÉ-REQUIS :

A course of microeconomics and some notions of industrial economics

PLAN / SOMMAIRE :

Class 1 Recall of industrial economics concepts

Class 2 What is innovation? (1/2)

Class 3 What is innovation? (2/2)

Class 4 Models of innovation (1/2)

Class 5 Models of innovation (2/2)

Class 6 Industrial dynamics

Class 7 Technological regimes

Class 8 Economics of science

Class 9 Intellectual property rights: Overview

Class 10 Final exam

ELEMENTS BIBLIOGRAPHIQUES :

- Malerba, Franco 2006 Innovation and the Evolution of Industries. *Journal of Evolutionary Economics* 16(1–2): 3–23.
- Kline, Stephen J., and Nathan Rosenberg 1986 An Overview of Innovation. *The Positive Sum Strategy: Harnessing Technology for Economic Growth* 275: 305.
- Klepper, Steven 1997 Industry Life Cycles. *Industrial and Corporate Change* 6(1): 145–182.
- Nelson, Richard R. 1959 The simple economics of basic scientific research. *Journal of political economy* 67.3: 297-306.
- Breschi, Stefano, Franco Malerba, and Luigi Orsenigo 2000 Technological Regimes and Schumpeterian Patterns of Innovation. *The Economic Journal* 110(463): 388–410.
- Other scientific papers and slides provided by the teacher