Syllabus:

Industrial Dynamics and Technological Innovation

(6 cfu. – code 91044 Prof. Elena Cefis)

The course is constituted by lectures on specific topics and tutorials to work on real data

PART I (6 cfu)

• Topic 1: Introduction.

What is Industrial Dynamics? Why is it important to study Industrial Dynamics?

Required:


• Topic 2 and 3: Innovation.

Innovation as one of the central manifestations of change. Invention and Innovation. Definition of innovation. Appropriability and Technological Opportunity

Required:


Recommended:


• Topic 4: The diffusion of Innovation and Sectoral Patterns.

Paradigms and Trajectories. Technological Regimes. Pavitt’s Taxonomy.
Required:


Recommended:


• Topic 5: The dynamics of innovation.


Required:


Recommended:


• Topic 6: Industrial Demography.

Entry, exit and survival of firms. Merger and Acquisitions and spin-offs

Required:

**Recommended:**


**• Topic 7: Firm Growth and Gibrat's Law.**


**Required:**

Dosi G. and R.R. Nelson (2010), Technical Change and Industrial Dynamics as Evolutionary Processes, in B. Hall and N. Rosemberg (eds.) Handbook of the Economics of Innovation, Amsterdam: North-Holland, (ch. 3)