



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Sociology of Innovation

2021-1-F5701R004

Course title

SOCIOLOGY OF BUSINESS INNOVATION

Topics and course structure

Within the complex economic dynamics that characterize contemporary society, scientific and technological knowledge is one of the key factors of competitiveness. In order to fully exploit the possibilities for development, it is necessary that this knowledge does not remain confined to laboratories and research centers, but spreads in the economic and social context, gaining strength and generating innovation. A key factor in the mechanisms of knowledge transfer is represented by human capital, that is, by the presence of professional figures able to operate in the boundary areas between science, economy, and society, addressing the management problems related to the generation, selection, development, and implementation of innovation in organizations.

The course aims to present the most relevant models of innovation and discuss the systemic approach to innovation, with the goal of contributing to the development of specific skills with respect to theoretical models, tools and methods for the management of organizational change, one of the fundamental aspects of the Master's Degree in Training and Development of Human Resources.

Objectives

Through the attendance of the lessons and the analysis of the texts indicated, the course of study intends:

- _____

- _____
- _____

At the end of the course, students will have acquired the following specific skills:

- _____
- _____
- _____

Methodologies

The teaching methodology used combines different tools:

- _____
- _____

In the Covid-19 emergency period the lessons will be held remotely asynchronously with synchronous videoconferencing events.

Online and offline teaching materials

Programme and references for attending students

Given the reorganization of educational activities due to the Covid-19 emergency, this year there will be no distinction between frequent and non-attendants.

Mandatory book:

• _____

Students will then have to choose 4 texts from the following:

- Amendola M., Antonelli C. e Trigilia C.(a cura di) (2005). *Per lo sviluppo. Processi innovativi e contesti territoriali*, Bologna, il Mulino.
- Baldini, Grimaldi e Sobrero, (2006), "Institutional changes and the commercialization of academic knowledge: A study of Italian universities' patenting activities between 1965 and 2002", *Research Policy*.
- Chesbrough, H., Vanhaverbeke, W., & West, J. (Eds.). (2006). *Open innovation: Researching a new paradigm*. Oxford University Press on Demand.
- Dringoli, A. (2007). *Strategie d'innovazione e valore d'impresa*. Cedam.
- Edquist, C. (Ed.). (1997). *Systems of innovation: technologies, institutions, and organizations*. Psychology Press.
- Etzkowitz H., (2003), "Research groups as 'quasi-firms': the invention of the entrepreneurial university", *Research Policy*, 32(1), 109-121.
- Etzkowitz H., (2002), "Incubation of incubators: innovation as a triple helix of university-industry-government", *Science and Public Policy*, 29.
- Forino Procacci, E. (2010) *Evoluzione organizzativa e sviluppo delle risorse umane*, Roma, Armando.
- Fromhold-Eisebith e Eisebith, (2005), "How to institutionalize innovative clusters? Comparing explicit top-down and implicit bottom-up approaches", *Research Policy*, 34, 1250-1268.
- Funtowicz S., Shepherd I., Wilkinson D. e Ravetz J.R., (2000), "Science and governance in the European Union: a contribution to the debate", *Science and Public Policy*, 27, 327-336.
- Gunasekara C., (2006), "Reframing the Role of Universities in the Development of Regional Innovation Systems", *Journal of Technology Transfer*, 32, 101-113.
- Lundvall, B. Å. (Ed.). (2010). *National systems of innovation: Toward a theory of innovation and interactive learning* (Vol. 2). Anthem press.
- Malecki, E. J., & Oinas, P. (1999). *Making connections: technological learning and regional economic change*. Ashgate Publishing Company.
- Porter M.E., (1998), "Clusters and the new economics of competition", *Harvard Business Review*, p. 77-89, Nov-Dec.
- Shavinina, L. V. (Ed.). (2003). *The international handbook on innovation*. Elsevier.
- Trigilia, C. (2007), *La costruzione sociale dell'innovazione : economia, società e territorio*, Firenze, Firenze University Press.

Programme and references for non-attending students

Given the reorganization of educational activities due to the Covid-19 emergency, this year there will be no distinction between frequent and non-attendants.

Mandatory book:

- Ramella, F. (2013). *Sociologia dell'innovazione economica*, Il Mulino.

Students will then have to choose 4 texts from the following:

- Amendola M., Antonelli C. e Triglia C.(a cura di) (2005). *Per lo sviluppo. Processi innovativi e contesti territoriali*, Bologna, il Mulino.
- Baldini, Grimaldi e Sobrero, (2006), "Institutional changes and the commercialization of academic knowledge: A study of Italian universities' patenting activities between 1965 and 2002", *Research Policy*.
- Chesbrough, H., Vanhaverbeke, W., & West, J. (Eds.). (2006). *Open innovation: Researching a new paradigm*. Oxford University Press on Demand.
- Dringoli, A. (2007). *Strategie d'innovazione e valore d'impresa*. Cedam.
- Edquist, C. (Ed.). (1997). *Systems of innovation: technologies, institutions, and organizations*. Psychology Press.
- Etzkowitz H., (2003), "Research groups as 'quasi-firms': the invention of the entrepreneurial university", *Research Policy*, 32(1), 109-121.
- Etzkowitz H., (2002), "Incubation of incubators: innovation as a triple helix of university-industry-government", *Science and Public Policy*, 29.
- Forino Procacci, E. (2010) *Evoluzione organizzativa e sviluppo delle risorse umane*, Roma, Armando.
- Fromhold-Eisebith e Eisebith, (2005), "How to institutionalize innovative clusters? Comparing explicit top-down and implicit bottom-up approaches", *Research Policy*, 34, 1250-1268.
- Funtowicz S., Shepherd I., Wilkinson D. e Ravetz J.R., (2000), "Science and governance in the European Union: a contribution to the debate", *Science and Public Policy*, 27, 327-336.
- Gunasekara C., (2006), "Reframing the Role of Universities in the Development of Regional Innovation Systems", *Journal of Technology Transfer*, 32, 101-113.
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Assessment methods

The examination will consist in the writing of a research project developed during the course or of topics proposed by the teacher on the basis of the bibliography indicated, aimed at verifying, on the one hand, the acquisition of the theoretical tools underlying the course and, on the other hand, the ability to apply the operational tools supporting the students' autonomous analysis and evaluation activity. A possible oral test on the topics covered in the lesson will follow, to be agreed with the teacher.

In the Covid-19 emergency period, oral exams will be telematics only. They will be conducted using the WebEx platform and the e-learning page of the teaching will contain a public link to access the exam for possible virtual viewers.

Office hours

Send an email to the teacher: davide.diamantini@unimib.it

Programme validity

The programs are valid for two academic years.

Course tutors and assistants
