MGT-635  Economics of Innovation and Technological Change
Foray Dominique, Various lecturers, Visentin Fabiana

Cursus  Sem.  Type
Management de la technologie  Obl.

Language  English
Credits  4
Session  Multiple
Exam  
Workload  120h
Hours  56
Lecture  56
Number of positions

Frequency
Every 2 years

Summary

Content
DTU, EPFL, TU/e and TUM have recently joined forces in a new strategic alliance, named Euro Tech, with the goal to further collaboration in leading research and educational programs. Considering that this institutional framework explicitly encourages the development of Euro Tech communities in several academic disciplines, Professors in innovation and entrepreneurship from the four schools have decided to partake in a comprehensive collaboration. This alliance will serve as the basis for further growth and encourage entrepreneurship & innovation research as a core scholarly discipline in European (technical) universities.

In the spirit of this initiative, a doctoral course on “Economics of Innovation and Technological Change” has been designed by Professors of the four universities under the coordination of Pr. Dominique Foray (EPFL) and will be offered to the students of Copenhagen, Eindhoven, Lausanne and Münich during the 2017 Spring Semester.

This one week block course will alternate formal lectures on various topics in the economics of innovation, interactive sessions, students' presentation as well as individual coaching.

Expected student activities
This one week block course will alternate formal lectures on various topics in the economics of innovation, interactive sessions, students' presentation as well as individual coaching.

Students after following this program will be able to:

• understand better what makes for a good research question and develop the ability to identify promising research questions for own thesis and further projects in the field of economics and management of innovation;

• elaborate a solid research design as relating in a consistent way research question, methods and data production and use;

• master the state of the art both in the general field of the economics and management of innovation and in the more specialized sub-field corresponding to own research interest (economics of science, industry dynamics, geography and space, appropriability issue and open innovation, effects of innovation on skills/employment/productivity/firm’s growth, innovation policy, specific technology analysis, and so on)

Resources

Bibliography

Obligatory readings (One paper per lecture)
• Lecture – Innovation and organization: TBD
• Lecture – Economics of science: Stephan, P.E., 2010, The economics of science, Handbook of the economics of innovation, 1, 217-274
• Lecture – Innovation and standardization: TBD
• Lecture – IPR and open source: TBD

**Recommended textbooks and handbooks**
• B.Hall and N.Rosenberg (eds.), 2010, Economics of Innovation, vol 1 & 2, Handbooks in economics, North-Holland
• P.Swann, 2009, The economics of innovation: an introduction, Edward Elgar
• D.Foray (ed.), 2009, The new economics of technology policy, Edward Elgar

**Ressources en bibliothèque**
• The economics of innovation: an introduction / Swann
• The new economics of technology policy / Foray
• Handbook of the economics of Innovation, vol 1 & 2 / Hall