Lecture and Seminar (M.Sc.)

Economics of Innovation and Knowledge Creation
Fachbereich Wirtschaftswissenschaften

Economic Policy Research Group (M.Sc. Rasmus Bode, Dominik Heinish, Johannes König)

Summer Term 2017

Time
Friday, 08:15-11:30
AB 08, R. 0113/0114

Overview
Innovation drives growth and job creation in modern economies. Many of the products and services that we take for granted today were not even invented or barely known to a broad public 20 years ago. The economics on innovation try to shed some light on the factors that influence the creation and diffusion of knowledge, and the impact it has on society. In this course, fundamental concepts, theories and findings in the economics of innovation are introduced, and challenges for theoretical and empiric approaches will be discussed. We will also discuss intellectual property rights and the importance and structure of knowledge networks.

Requirements (6 ECTS Credits):
- Seminar paper (about 15 pages; due date August 30, 2016) plus oral presentation (about 20 minutes)
- Attendance and active participation in the seminar sessions (dates will be announced)
- All individual requirements have to passed to earn credits.

Maximum number of participants: 30

Please register for the course in the Cours Overview (Vorlesungsverzeichnis) at the university homepage. Selection of final participants will be based on registered person taking part in the introduction lesson. Topic assignments will be in the first lesson too.

For further information, see Moodle.
Part I: Science

21.04.17: Introduction, Assignment of Topics

28.04.17: Knowledge as an Economic Good I: Knowledge Production in Science

Seminar Topics:

1. Human Capital and Physical Capital in Science: Evidence from the Legacy of Nazi Germany

2. TBA

05.05.17: Open Science

Seminar Topics:

1. The Impact of “False Science”: Evidence from Retracted Articles

2. TBA

12.05.17: The Production of Science

Seminar Topics:


2. The Spatial Diffusion of Scientific Knowledge

19.05.17: What Makes a Scientist?

Seminar Topics:

1. Quality vs. Appearances: How do you Become a Professor in Germany?
2. Early Career Imprints in Science: How does a Professor Influence their PhD students’ careers?


26.05.17: Technology Transfer from Universities to the Private Sector

Seminar Topics:

1. How Does the Abolition of the Professor’s Privilege Influence University Research?


2. TBA

Part II: Innovation

02.06.17: Classifications and drivers of Innovation

Seminar Topics:

1. The effect of firm size and the nature of innovation


2. TBA

09.06.17: Innovation, Science and Economic Development

Seminar Topics:

1. TBA

2. Science and Innovation: The role of University spillovers


16.06.17 Geography of Innovation

Seminar Topics:

1. R&D Spillover and the geography of Innovation

2. Migration and Innovation

23.06.17 Innovation policy
Seminar Topics:
1. Impact factors on R&D performance

2. Are Incentives for R&D investments effective?

Part III: Knowledge Networks and Measurements
30.06.17 Making knowledge visible: patents and other output measures
Seminar Topics:
1. Are patents appropriate to facilitate innovations? An old, but still relevant discussion.

2. Patent (citations) as measure for (regional) innovative activity.

07.07.17 A brief introduction into network science: understanding complex structures
Seminar Topics:
3. Industry clusters and knowledge networks.


14.07.17 Knowledge networks I: creation and collaboration
Seminar Topics:

5. **Collaboration and innovation**

6. **The impact of individuals in knowledge networks**:

21.07.2017 **Knowledge networks II: diffusion and migration**

Seminar Topics:

7. **Knowledge transfer between science and industry**

8. **Knowledge diffusion by mobile individuals**: