

## **Course information for the summer semester 2026**

Applied Economic Theory: Introduction to Innovation Policy: Neo-Schumpeterian Economics and Current Governance Issues.

### **Content & Qualification Objectives**

Students are able to understand and critically discuss innovation policy decisions. In addition to a general understanding of the causes of the neoclassical and evolutionary justification patterns of state innovation policy as innovation management of the state, students also have knowledge of specific innovation policy programs/measures and their practical design in realpolitik use cases of SME promotion, research funding, the energy transition or electromobility. In addition, they are able to distinguish and critically analyze different innovation indicators as well as qualitative/quantitative evaluation types with regard to their function. Finally, the students can use their knowledge of innovation policy concepts to present, explain and reflect on complex issues using case studies.

- Basic knowledge of evolutionary economics and intensive examination of innovation policy problems and the various types of instruments. Critical Analysis of Qualitative and Quantitative Innovation Policy Evaluation.
- Examination of the justification patterns of state commitment and innovation policy programs as well as measures at international, EU, federal and state level as well as design of realpolitik measures.

**Dates:** See Vorlesungsverzeichnis

**Creditability:** Master Economics, Master Public Economics

**Admission requirements & previous knowledge:** none

**Registration:**

**Examination:**

Students must write a term paper (approx. 15 pages) according to scientific standards and present their results (30 min). The seminar grade is based on the evaluation of the written term paper and the presentation. The guidelines for the preparation of seminar papers can be requested from the chair. The term paper must be submitted digitally by e-mail as a PDF document by 30.08.2026, 10 a.m.

**Course language:** English

## Contact

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## Further Information:

- Access to teaching materials through the Blackboard.
- Lecture slides will be uploaded to the Blackboard on the Friday before the event.
- **10146808 (Iec) + 10146811 (Seminar) + 10146826 (Tut)**

## Literature:

Dopfer, K., Nelson, R.R., Potts, J., & Pyka, A. (Eds.). (2023). *Routledge Handbook of Evolutionary Economics* (1st ed.). Routledge. <https://doi.org/10.4324/9780429398971>

Smits, R. E., Kuhlmann, S., Shapira, P. (2010). *The theory and practice of innovation policy*. Edward Elgar Publishing.

Dosi, G. (1982): Technological paradigms and technological trajectories – A suggested interpretation of the determinants and directions of technical change, *Research Policy* 11, S. 147-162.

Nelson, R.R. et al. (2018): *Modern Evolutionary Economics*, Cambridge University Press, Kapitel 3

Malerba, F. (2002). Sectoral systems of innovation and production. *Research policy*, 31(2), 247-264.

Cooke, P. (2001). Regional innovation systems, clusters, and the knowledge economy. *Industrial and corporate change*, 10(4), 945-974.

Lundvall, B.-Å. (2007). National Innovation Systems—Analytical Concept and Development Tool. *Industry & Innovation*, 14, 95–119.

Bergek, A., Jacobsson, S., Carlsson, B., Lindmark, S., & Rickne, A. (2008). Analyzing the functional dynamics of technological innovation systems: A scheme of analysis. *Research policy*, 37(3), 407-429.

Hekkert, M. P., Suurs, R. A., Negro, S. O., Kuhlmann, S., & Smits, R. E. (2007). Functions of innovation systems: A new approach for analysing technological change. *Technological forecasting and social change*, 74(4), 413-432.

Hekkert, M., Negro, S., Heimeriks, G., & Harmsen, R. (2011). *Technological innovation system analysis: A manual for analysts*.

Weckowska et al. (2021). Reviewing technological innovation system research – How can directionality and governance be addressed? Paper for the IST 2021 conference.

Dreher, C. (2013): Die Diffusion von Innovationen über Zeit und Raum – Ein Überblick zu Ansätzen der Diffusionsforschung und evolutionären Innovationsökonomie. In: Kaiser, E.; Schier, W. (Eds.): *Mobilität und Wissenstransfer in diachroner und interdisziplinärer Perspektive*. De Gruyter, Berlin/Boston, S. 209-247.

Edler, J., Gök, A., Cunningham, P., & Shapira, P. (2016). Introduction: Making sense of innovation policy. In J. Edler, A. Gök, & P. Shapira (Eds.), *Handbook of Innovation Policy Impact* (pp. 1-17). Cheltenham: Edward Elgar Publishing.

Borrás, S., & Edquist, C. (2013). The choice of innovation policy instruments. *Technological Forecasting and Social Change*, 80(8), 1513-1522.

Flanagan, K., Uyarra, E., & Laranja, M. (2011). Reconceptualising the 'policy mix' for innovation. *Research policy*, 40(5), 702-713.

Aghion, P., David, P. A., & Foray, D. (2009). Science, technology and innovation for economic growth: linking policy research and practice in 'STIG Systems'. *Research policy*, 38(4), 681-693.

Mazzucato, M. (2018). *Mission-oriented research & innovation in the European Union*. Brussels: European Commission.

- Mazzucato, M. (2013). "Debunking the Market Mechanism: Organisations, Innovation and Inequality – A Response to John Kay." *Political Quarterly* 84 (4): 444–447.
- Polanyi, K. (1944). *The Great Transformation: The Political and Economic Origins of Our Time*. (2nd Beacon Paperback ed.). Boston, MA: Beacon Press.
- Reinert, E. S. (2007). *How Rich Countries Got Rich and Why Poor Countries Stay Poor*. London: Constable.
- Rodrik, D. (2004). "Industrial Policy for the Twenty-First Century." *John F. Kennedy School of Government Working Paper Series rwp04–047*.
- Schot, J., & Steinmueller, W. E. (2018). Three frames for innovation policy: R&D, systems of innovation and transformative change. *Research Policy*, 47(9), 1554–1567
- Biegelbauer, P., (2013). *Wie lernt die Politik?: Lernen aus Erfahrung in Politik und Verwaltung*. Springer-Verlag.
- Weber, Karl Matthias et al. (2021). *Agilität in der F&I-Politik: Konzept, Definition, Operationalisierung, Studien zum deutschen Innovationssystem*, No. 8-2021, Expertenkommission Forschung und Innovation (EFI), Berlin.
- Weber, Karl Matthias et al. (2021). *Agilität in der F&I-Politik: Konzept, Definition, Operationalisierung, Studien zum deutschen Innovationssystem*, No. 8-2021, Expertenkommission Forschung und Innovation (EFI), Berlin.