

Elective course in the area **Philosophy**

Philosophy of Science

Teaching Load	2,5 hours per week				
Kind of course	Elective in Master Programme				
ECTS Credit Points	5 = 150 hours <table border="1"><tr><td>Lecture:</td><td>• 37,5 hours = 15 x 2,5 SWS</td></tr><tr><td>Self-study:</td><td>• 112,5 hours ➤ 60 hours: Preparation for final exam ➤ 52,5 hours: reading of texts</td></tr></table>	Lecture:	• 37,5 hours = 15 x 2,5 SWS	Self-study:	• 112,5 hours ➤ 60 hours: Preparation for final exam ➤ 52,5 hours: reading of texts
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Lecturer	Prof. Dr. Manfred Herbert				
Course objective and Learning Outcomes	Knowledge of basic concepts and important ideas of philosophy of science; critical reflection of the methods of science, especially of social sciences and economics - Capacity to apply scientific methods in a correct way and to criticize scientific positions gained in a methodologically unjustified way				
Topics	A Introduction 1. What is philosophy of science and what is it useful for? 2. The Basic Concepts B Basics of Scientific Methodology 1. Linguistic Foundations 2. Definitions 3. Arguments 4. Fallacies C Deduction 1. Concept 2. Valid Arguments 3. Sound Arguments 4. Syllogisms 5. Other Forms of Deductive Arguments				

6. Formal Fallacies

D Induction

1. Concept
2. Methods of Inductive Reasoning
3. Inductive Fallacies
4. The Problem of the Justification of Induction

E Abduction

1. Concept and Method
2. Dangers
3. Deduction, Induction and Abduction - A Demarcation

F Interpretation

1. Concept
2. Methods

G Important Positions in Philosophy of Science

1. Rationalism
2. Empiricism
3. Positivism
4. Critical Rationalism
5. Current Positions: Kuhn, Lakatos and Feyerabend
6. Hermeneutic Positions

Literature

- Reading of philosophical texts by Aristotle, Francis Bacon, David Hume, John Stuart Mill, Max Weber, Karl R. Popper, Thomas S. Kuhn, Imre Lakatos, Paul Feyerabend, Harry G. Frankfurt
- Bortolotti, L., An Introduction to the Philosophy of Science, 2008
- Copi, I.M./Cohen C., Introduction to Logic, 12th edition 2005
- Curd, M./Cover, J.A., Philosophy of Science. The Central Issues, 1998
- Davis, J.B./Marcian, A./Runde, J., The Elgar Companion to Economics and Philosophy, 2004
- Govier, T., A Practical Study of Argument, 4th edition, 1997
- Hill, R., The Economics Anti-Textbook, 2010
- Kincaid, H./Ross D., The Oxford Handbook of Philosophy of

	<p>Economics, 2009</p> <ul style="list-style-type: none">• Losse, J., A Historical Introduction to the Philosophy of Science, 4th edition, 2001• Okasha, S., Philosophy of Science, 2002• Rosenberg, A., Philosophy of Science. A Contemporary Introduction, 2001
Teaching Methods	<ul style="list-style-type: none">• Lecture• Discussion• Reading of texts
Grading	<ul style="list-style-type: none">➤ Midterm exam (20%)➤ Final exam (80%)
Language of Instruction	English