

title of course	Philosophy of Science
responsible instructor	Prof Dr Manfred Herbert
course objectives and learning outcomes	Students gain knowledge of basic concepts, basic problems and important ideas of philosophy of science and the capacity to reflect critically the methods of science, especially of social sciences and economics, and to apply scientific methods in a correct way.
course contents	<p>1 Introduction: What is philosophy of science and what is it useful for?</p> <p>2 Basic Concepts</p> <p>3 Objectives of Science</p> <p>4 Fundamentals of Research Projects</p> <p>5 Ethics of Science</p> <p>6 Linguistic Foundations</p> <p>7 Definitions</p> <p>8 Scientific Statements</p> <p>9 Arguments</p> <p>10 Fallacies</p> <p>11 Deduction</p> <p>12 Induction</p> <p>13 Abduction</p> <p>14 Interpretation</p> <p>15 Value Judgements and Norms</p>
teaching methods	<ul style="list-style-type: none"> - lectures - exercises - guided reading of texts - discussion - self-study
prerequisites	There are no formal requirements.
suggested reading	<p>A. Reading of original philosophical texts (e.g. by David Hume, John Stuart Mill, Karl R. Popper, Thomas S. Kuhn, Daniel Kahneman), articles and excerpts of textbooks (to be handed out)</p> <p>B. Recommended textbooks (preferably most recent edition):</p> <ul style="list-style-type: none"> - Govier, T., A Practical Study of Argument - Johansson, L., Philosophy of Science for Scientists - Okasha, S., Philosophy of Science

	<ul style="list-style-type: none"> - Psillos S./Curd, M., The Routledge Companion to Philosophy of Science, 2008 <p>C. Recommended internet sources:</p> <ul style="list-style-type: none"> - Stanford Encyclopedia of Philosophy: http://plato.stanford.edu/index.html - The Internet Encyclopedia of Philosophy: http://www.iep.utm.edu
applicability	<p>This course is in particular applicable to the following courses of the Master programme International Business and Economics (M.A., "IBE"):</p> <ul style="list-style-type: none"> - Economic Philosophy - Political Philosophy <p>This course is also applicable to the Master programme Finance (M.Sc.) and to other business-oriented Master programmes offered by Schmalkalden University of Applied Sciences.</p>
workload	<p>total workload: 150 hours, of them:</p> <ol style="list-style-type: none"> 1) lecture: 38 2) self-study: 112, of them: <ul style="list-style-type: none"> - course preparation (in particular reading): 40 - follow-up: 40 - exam preparation: 32
ECTS credit points and weighting factor	5 ECTS credit points; weighting factor: 5/120 (IBE) or 5/90 (Finance), respectively
basis of student evaluation	<ul style="list-style-type: none"> - comprehensive written examination, 90 minutes (67 %) - midterm exam (33 %)
time	first academic year
frequency	each academic year
duration	1 semester
course type	elective course
remarks	teaching language is English.

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