



Applied Rationality

Code: 43844 ECTS Credits: 6

Degree	Туре	Year	Semester
4316227 Applied Philosophy	ОТ	0	2

Contact

Use of languages

Name: Thomas Sturm Principal working language: english (eng)

Email: Thomas.Sturm@uab.cat

Prerequisites

- Good reading abilities in English language; participation in class discussion can be done both in Spanish and English.
- Interest in philosophical and scientific debates over rationality and/or reason
- Interest in the critical discussion of classical and current texts on the class topic
- Knowledge of basic logic is necessary; knowledge of theories of probability and rational decision is helpful.
- Willingness to prepare the class discussion of one of the readings (summary of one article/book chapter plus preparation of discussion questions and/or critical evaluation of the arguments contained)
- Readings are obligatory unless noted otherwise. Don't just read the course texts passively; work actively with them and come well-prepared to classes. Three questions are always central: What's the author's main claim? What is his argument for the claim? What should we think of the argument's form and premises? Especially for your own presentation of an article/book chapter, please use these questions as guidelines.

Objectives and Contextualisation

Theories of rationality should ideally provide us with tools for a number of important tasks: We want to avoid irrationality, or aim at justifying our beliefs and decisions by certain standards. This is important for many tasks in ordinary life, such as judgments and decisions of individual and public health, wealth, and happiness. We want to be clear about whether the reasons for our beliefs and actions are valid or reasonable. Furthermore, we often have to communicate with others about our beliefs and decisions, such as in scientific, ethical, or political contexts. All this requires conceptions or even theories of reason or rationality.

But what do we mean when we say that something, or someone, is rational (or irrational)? What are the normative standards of rationality? How should a theory of rationality be built? What are its presuppositions, its potentials and limits? What role does science play in it? In the answers to such questions, different thinkers have introduced a bewildering variety of distinctions - such as theoretical versus practical, instrumental versus non-instrumental, formal versus content-based, or optimizing versus "bounded" concepts of rationality. The course presents a selection of classical and current debates in which such understandings of rationality or reason emerge - focusing in particular on the area of epistemic rationality, that is, the quality of our beliefs and the reasoning processes that support them.

Skills

- Analyze and interpret topics and problems in current contemporary philosophical research based on the interrelation between ethics, art and politics.
- Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- Continue the learning process, to a large extent autonomously.
- Contribute to debates in current philosophical research making significant critical contributions, with conceptual precision and good arguments by means of public presentation.
- Relate the concepts and knowledge of the various areas of current philosophical research in relation to dependencies between science and technology, and the ethical and political implications of such dependencies.
- Search for, select and manage information autonomously, both from structured sources (data bases, bibliographies, specialized journals) and from information distributed on the web.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.

Learning outcomes

- 1. Apply the theory of rationality to problem areas in regulations, aesthetics and science and technology.
- 2. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- 3. Continue the learning process, to a large extent autonomously.
- 4. Know the main contemporary theories on rationality, especially its social, political, ethical and cognitive implications in scientific and technological development.
- 5. Make a written or oral heuristic contribution to the theories of rationality.
- 6. Search for, select and manage information autonomously, both from structured sources (data bases, bibliographies, specialized journals) and from information distributed on the web.
- 7. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.

Content

"Epistemic rationality" refers to the idea that our knowledge-claims can be evaluated according to standards of reasoning. But which norms should guide our inferences? How are the norms related to the actual ways in which human beings reason? And how responsible do we have to be for our beliefs to be rational? Finally, can we answer these questions from the philosophical armchair, or by the methods and results of the empirical sciences? To answer such questions, we will look at a heated debate in philosophy and psychology over human rationality. This part of the course has three interrelated aims: First, it provides exercises in epistemic reasoning and fallacies; second, it is a philosophical study of a controversy in cognitive psychology; thirdly, it aims at an analysis of epistemological naturalism, its potentials and limits.

1. Introduction: Rationality, reasoning and the mistakes we make

Botterill, G. & Carruthers. P. (1999). The philosophy of psychology (pp. 105-130, "Reasoning and irrationality"). Cambridge: Cambridge University Press.

Tversky, A. & Kahneman, D. (1974). Judgment under uncertainty: Heuristics and biases. Science, 185, 1124-1131.

2. Are we irrational? Philosophical reactions to "Heuristics and biases"

Cohen, L.J. (1981). Can human irrationality be experimentally demonstrated? Behavioral and Brain Sciences, 4, 317-331 (comments and responses, 331-59).

Stich, S. (1985). Could man be an irrational animal? Some notes on the epistemology of rationality. Synthese, 64, 115-135.

3. The "rationality wars" in psychology

Gigerenzer, G. (1991). How to make cognitive illusions disappear: Beyond heuristics and biases. European Review of Social Psychology, 2, 83-115.

Kahneman, D. & Tversky, A. (1996). On the reality of cognitive illusions. Psychological Review, 103, 582-591.

Gigerenzer, G. (1996). On narrow norms and vague heuristics: A rebuttal to Kahneman and Tversky. Psychological Review, 103, 592-596.

4. Are psychologists irrational? Philosophical reactions to the "rationality wars"

Samuels, R., Stich, S. & Bishop, M., 2002. Ending the rationality wars: How to make disputes about human rationality disappear. In: R. Elio (ed.), Common Sense, Reasoning and Rationality. Oxford: Oxford University Press, 236-268.

Goldman, A. (2008). Human rationality: Epistemological and psychological perspectives. In: A. Beckermann & Sven Walter (eds.), Philosophie: Grundlagen und Anwendungen/Philosophy: Foundations and Applications (pp. 230-247). Paderborn: Mentis.

Bishop, M. (2008). Reflections on a normative psychology. In: A. Beckermann & Sven Walter (eds.), Philosophie: Grundlagen und Anwendungen/Philosophy: Foundations and Applications (pp. 249-262). Paderborn: Mentis.

5. How responsible should we be about beliefs and reasoning?

Bishop, M. (2000). In praise of epistemic irresponsibility: How lazy and ignorant can you be? Synthese, 122, 179-208.

Hieronymi, P. (2008). Responsibility for believing. Synthese, 161, 357-373.

Methodology

The module is structured into 5 session of 3.5 hours each. The sessions alternate between lecturing and seminar discussion of basic course readings. In the tutorials, professors will supervise the preparation of a written paper of 10-15 pages related to some topic treated in the module.

Activities

Title	Hours	ECTS	Learning outcomes
Type: Directed			
Class discussion	17.5	0.7	1, 6, 4, 5, 7, 2
Type: Supervised			
Supervision	22.5	0.9	1, 6, 7, 2, 3
Type: Autonomous			
Autonomous study	110	4.4	1, 6, 4, 5, 7, 2, 3

Evaluation

Please check the master's general guidelines.

Both class participation, quality of presentations and final written work (when applicable) in each segment of the module will contribute to your final mark.

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Class presentation	50%	0	0	1, 6, 4, 5, 7, 2, 3
Development of a written essay	50%	0	0	1, 6, 4, 5, 7, 2, 3

Bibliography

Bishop, M. (2000). In praise of epistemic irresponsibility: How lazy and ignorant can you be? Synthese, 122, 179-208

Bishop, M. (2008). Reflections on a normative psychology. In: A. Beckermann & Sven Walter (eds.), Philosophie: Grundlagen und Anwendungen (pp. 249-262). Paderborn: Mentis.

Bishop, M.A. & Trout, J.D. (2005) Epistemology and the psychology of human judgment. New York: Oxford University Press.

Botterill, G. & Carruthers. P. (1999). The philosophy of psychology (pp. 105-130, "Reasoning and irrationality"). Cambridge: Cambridge University Press.

Cohen, L.J. (1981). Can human irrationality be experimentally demonstrated? Behavioral and Brain Sciences, 4, 317-331 (comments and responses, 331-59).

Gigerenzer, G. (1991). How to make cognitive illusions disappear: Beyond heuristics and biases. European Review of Social Psychology, 2, 83-115.

Gigerenzer, G. (1996). On narrow norms and vague heuristics: A rebuttal to Kahneman and Tversky. Psychological Review, 103, 592-596.

Gigerenzer, G. (2008). Bounded and rational. In: A. Beckermann & Sven Walter (eds.), Philosophie: Grundlagen und Anwendungen (pp. 203-228). Paderborn: Mentis.

Gigerenzer, G. & Sturm, T. (2012). How (far) can rationality be naturalized? Synthese, 187, 243-268.

Goldman, A. (2008). Human rationality: Epistemological and psychological perspectives. In: A. Beckermann & Sven Walter (eds.), Philosophie: Grundlagen und Anwendungen (pp. 230-247). Paderborn: Mentis.

Grice, P. (1975). Logic and conversation. In: P. Cole & J. L. Morgan (Eds.), Syntax and semantics 3: Speech acts (pp. 41-58). New York: Academic.

Hieronymi, P. (2008). Responsibility for believing. Synthese, 161, 357-373.

Kahneman, D. & Tversky, A. (1996). On the reality of cognitive illusions. Psychological Review, 103, 582-591.

Lopes, L., 1991. The rhetoric of irrationality. Theory and Psychology, 1, 65-82.

Nozick, R. (1993). The nature of rationality. Princeton, NJ: Princeton UP.

Samuels, R., Stich, S.& Bishop, M. (2002). Ending the rationality wars: How to make disputes about human rationality disappear. In: R. Elio (ed.), Common Sense, reasoning and rationality. Oxford: Oxford University Press, 236-268.

Stich, S. (1985). Could man be an irrational animal? Some notes on the epistemology of rationality. Synthese, 64, 115-135.

64, 115-135.

Tversky, A. & Kahneman, D. (1974). Judgment under uncertainty: Heuristics and biases. Science, 185, 1124-1131.