

Course descriptions

TABLE OF CONTENTS

1. AmoLO-24/19 Introduction to Bayesian Epistemology.....	2
2. A-AboLO-15/24 Introduction to Logic.....	4
3. A-AboLO-29/22 Methodology of Science.....	6

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KLMV/AmoLO-24/19	Course title: Introduction to Bayesian Epistemology
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 1., 3., 15.	
Educational level: II.	
Prerequisites:	
Course requirements: During semester: Active participation and assignments (50 pts), After semester: test (50 pts); Classificatory scale: A: 100 – 93 pts.; B: 92 – 85 pts.; C: 84 – 77 pts.; D: 76 – 69 pts.; E: 68 – 60 pts.; Fx: 59 – 0 pts. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: Students are good at fundamentals of the probability theory in order to effectively use its apparatus (in Bayesian epistemology) for modelling different “strength” of belief epistemic agents. Given a finer-grained epistemic apparatus, students have the ability to analyse and evaluate some of the standard problems of epistemology and methodology, e.g. the problem of induction, disagreement, justification, etc.	
Class syllabus: <ol style="list-style-type: none"> 1. Belief and Degrees of Belief 2. Theory of probability: A Theoretical Minimum 3. Subjective and Objective Bayesianism 4. Hume’s Problem of Induction 5. The New Riddle of Induction 6. The Ravens’ paradox 7. Bayesian Confirmation Theory 8. Justification, Knowledge and Probability 	
Recommended literature: BRADLEY, D. (2015): A Critical Introduction to Formal Epistemology. Bloomsbury. SCHUPBACH, J. N. (2022): Bayesianism and Scientific Reasoning. Cambridge: Cambridge University Press. ISBN: 978-1108714013, DOI: https://doi.org/10.1017/9781108657563 TITELBAUM, M. (2022): Fundamentals of Bayesian Epistemology. Vol. 1. Oxford: Oxford University Press. ISBN: 9780198707615. TITELBAUM, M. (2022): Fundamentals of Bayesian Epistemology. Vol. 2. Oxford: Oxford University Press. ISBN: 9780192863157	

Literature will be provided in electronic form.						
Languages necessary to complete the course: Slovak (seminar activity) English (literature, seminar activity)						
Notes:						
Past grade distribution Total number of evaluated students: 22						
A	ABS	B	C	D	E	FX
86,36	0,0	9,09	4,55	0,0	0,0	0,0
Lecturers: doc. Mgr. Lukáš Bielik, PhD.						
Last change: 11.04.2024						
Approved by: prof. Mgr. Michal Chabada, PhD., prof. PhDr. Roman Holec, DrSc., prof. PhDr. Daniel Lančarič, PhD., prof. PhDr. Miloslav Vojtech, PhD.						

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KLMV/A-AboLO-15/24	Course title: Introduction to Logic
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 16.	
Educational level: I.	
Prerequisites:	
Course requirements: During the semester: active participation (10 points), home works (20 points), tests during the semester (20 points); Final assessment: comprehensive test (50 points); Grading A: 100 - 92, B: 91 - 84, C: 83 - 76, D: 75 - 68, E: 67 - 60, FX: 59 - 0 pts. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: Students will be informed on the basics in logical analysis of natural language as condition for successful studying of professional texts and on arguments contained in them. They need to comprehend basic syntactical and semantical aspects of natural language and to be acquainted with basics of propositional and predicate logic as well as with rules of valid inference. They will be acquainted with: tools for compacting texts, obtaining practice in their reconstruction; non-deductive forms of inference and the most known forms of eristic arguments; basic knowledge related to theory of definition and theory of questions and answers.	
Class syllabus: Language and its functions; language as codification of meaning. Singular and general expressions (properties and relations). Subject and predicate of sentence. Syntactical structure of atomic and molecular terms. Modalities in language, kinds and their function; intuitive understanding of state of affairs. Concept vs. representation, expressing concepts by language and relations among them. Semantically conditioned relations among terms. Modifiers and kinds of them; fuzzy terms. Argumentation, arguments; structure of arguments; deductive arguments. Propositional logic – syntax and semantics. Principle of compositionality for propositions. Propositional connectives in natural language. Propositional logical implication – basic rules of correct inference. Inference in natural language. Expressing of necessary and sufficient condition (promises, legal regulations, causes). Tools for text compacting. Predicate logic. Expressing generality in natural language. Application of basic predicate logic rules to inference in natural language. Abductive inferences and searching for the best explanation. Argument fallacies and eristic arguments. Definitions. Questions; presuppositions and false questions; types of answers.	
Recommended literature:	

1. E. J. LEMMON - Beginning Logic, Chapman & Hall, 1998 ISBN-13 978-0442306762 2. MARKO, V.: Úlohy z výrokovej a predikátovej logiky [Propositional and Predicate Logic Exercises] Bratislava: Univerzita Komenského v Bratislave, ISBN 9788022344951 3. COPI, M; COHEN, C, Introduction to Logic, 8th ed MacMillan 1990. ISBN-10, 0023250356

Languages necessary to complete the course:

English

Notes:

Designed for students whose main subject is not philosophy

Past grade distribution

Total number of evaluated students: 236

A	B	C	D	E	FX
18,22	15,25	13,98	12,29	16,53	23,73

Lecturers: doc. Dr. Vladimír Marko, PhD.

Last change: 11.04.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KLMV/A-AboLO-29/22	Course title: Methodology of Science
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 1., 3., 5., 15.	
Educational level: I.	
Prerequisites:	
Course requirements: Weekly written assignments throughout the semester (20 pts.), midterm quiz (10 pts.), research proposal (30 pts., of which: written part: 15 pts., presentation at a colloquium: 10 pts., peer feedback on another student's proposal: 5 pts.). Grading scale: 100-92% of total: A, 91-84%: B, 83-76%: C, 75–68%: D, 67-60%: E, 59–0%: Fx. A violation of academic integrity may result in the voiding of points earned in the given category. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: Students are able to compose and assess a research proposal – an essential piece of writing describing a research project, such as a BA or an MA thesis. More specifically, students are able to identify research problems, design research questions, propose hypotheses and devise methods of hypothesis-testing.	
Class syllabus: <ol style="list-style-type: none"> 1. Science, pseudoscience and the demarcation problem 2. The language of science 3. Elements of logic: deductive arguments 4. Elements of logic: non-deductive arguments 5. The structure of scientific research 6. Falsificationism 7. Empirical methods 8. Conceptual methods 9. Types of scientific research 10. Scientific models, theories and explanation 	
Recommended literature: BIELIK, L. Methodology of Science : An Introduction. Bratislava: Comenius University in Bratislava, 2019. ISBN 978-80-223-4782-2. Available at: https://fphil.uniba.sk/fileadmin/fif/katedry_pracoviska/klmv/bielik/Bielik-Methodology_of_Science.pdf	

BRYMAN, A. Social Research Methods. Oxford: Oxford University Press, 2012. 978-01-995-8805-3 KOSSO, P. A Summary of Scientific Method. Dordrecht: Springer, 2011. ISBN 978-94-007-1614-8 Required readings will be made available to students in electronic form.					
Languages necessary to complete the course: English (B2)					
Notes:					
Past grade distribution Total number of evaluated students: 84					
A	B	C	D	E	FX
45,24	13,1	9,52	10,71	13,1	8,33
Lecturers: Mgr. Juraj Halas, PhD.					
Last change: 23.06.2022					
Approved by:					