

UNIVERSITATEA BABEȘ-BOLYAI BABEŞ-BOLYAI TUDOMÁNYEGYETEM BABEŞ-BOLYAI UNIVERSITÄT BABEŞ-BOLYAI UNIVERSITY TRADITIO ET EXCELLENTIA

# **Course syllabus**

## Academic year 2025-2026

### 1. Information about the program

1.1 Higher Education Institution	Babeş-Bolyai University
1.2 Faculty	History and Philosophy
1.3 Department	Philosophy
1.4 Field of study	Computer Science
1.5 Study level	Master
1.6 Programme of study/ Qualification	Cyber Security

### 2. Information about the discipline

2.1 Title	Fundamentals of humanistic education (Argumentation theory)					
2.2 Course holder		Lec	turer Dr. Mihai Rusu			
2.3 Seminar holder						
2.4 Year of study	2.5 Semester	1	2.6. Type of assessment <sup>1</sup>	ME	2.7 Type of $module^2$	F

#### 3. Total estimated time (teaching hours per semester)

	1	,			
3.1 No. of hours per week	2	3.2 of which for	2	3.3 of which for	0
		course		seminar	
3.4 Total no. of hours in the curriculum	28	3.5 of which for	28	3.6 of which for	0
		course		seminar	
Time distribution:					Hours
Study by using handbook, reader, bibliography and course notes					17
Additional library/specialised online research, field research					8
Preparation of seminars/laboratories, homework, projects, portfolios and essays					15
Tutoring					5
Examinations				2	
Other activities:					
3.7 Total no. of hours for individual stud	<b>X</b> 7	17			· ·

3.7 Total no. of hours for individual study	47
3.8 Total no. of hours per semester	75
3.9 No. of ETCS credit points	3

## 4. Prerequisites (where applicable)

4.1 of curriculum	<b>*</b> -
4.2 of competencies	<b>*</b> -

### 5. Conditions (where applicable)

5.1 For the development of the course	<ul> <li>Online course conducted through the MS Teams platform</li> </ul>
5.2 For the development of the seminar/laboratory	*

 $<sup>^1</sup>$  E - exam, ME - multi-term examinations, C - collocutional examination/assessment test  $^2$  OB - core module, OP - elective module, F - extracurricular module



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# 6. Specific skills acquired

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## 7. Course objectives (based on list of acquired skills)

7.1 General objective	<ul> <li>Familiarize students with the formal and informal procedures for</li> </ul>
	evaluating arguments.
	<ul> <li>Familiarize students with logical and cognitive approaches to</li> </ul>
	reasoning.
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*	Present traditional, truth table-based, and state of the art (semantic/analytic tableaux) proof procedures for testing the validity of arguments/the consistency of propositions/beliefs, and automated reasoning software based on semantic/analytic tableaux. Present a version of natural deduction for propositional logic and proof assistants for natural deduction. Classify and present criteria for evaluating reasonings. Classify and identify logical fallacies. Classify and identify reasoning/cognitive biases.
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<u>Co</u>	urse	Teaching methods	Observations
1.	Identifying arguments. The general structure of arguments. Argument evaluation: basic concepts and distinctions. <i>Keywords</i> : premises, conclusion, premise indicators, conclusion indicators, semantic and structural ambiguities, truth values.	Presentation, conceptual clarifications.	
2.	Types of reasoning. Applications. <i>Keywords</i> : deductive reasoning, inductive reasoning, abductive reasoning.	Presentation, knowledge synthesis, conceptual clarification, practical activities, group activities, guided discovery.	
3.	Modeling arguments: fundamental distinctions. <i>Keywords</i> : serial arguments, convergent arguments, divergent arguments.	Presentation, knowledge synthesis, conceptual clarifications.	
4.	Nuts and bolts of propositional logic. <i>Keywords</i> : sentences, propositions, atomic sentences, compound sentences, logical connectives, regimenting sentences in propositional logic, regimenting arguments in propositional logic	Presentation, knowledge synthesis, conceptual clarifications, practical activities, group activities, guided discovery.	
5.	Modeling arguments in propositional logic. Applications. <i>Keywords</i> : truth tables, semantic tableaux rules/analytic tableaux rules, validity tests.	Presentation, knowledge synthesis, conceptual clarifications, practical activities.	



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14.	Review of the topics. Significance and relevance.	Debate, interactive teaching.	
	<i>Keywords</i> : manipulation in social- media, the rhetoric of advertising, etc.	activities.	
13.	manipulation. Applications.	clarifications, practical	
13	metaphor, irony, analogy, anaphora, apophasis, diasyrmus, etc. Contemporary techniques of	Presentation, conceptual	
12.	effects. Applications. <i>Keywords</i> : rhetorical question,	clarifications, practical activities.	
12	invention/discovery, arrangement, style, memory, delivery, ēthos, pathos, logos. Traditional rhetorical devices and	Presentation, conceptual	
	epideictic/display rhetoric, deliberative rhetoric,	guided discovery.	
	cannons. The appeals. Case studies. <i>Keywords</i> : forensic/judicial rhetoric,	clarifications, practical activities, group activities,	
11.	The branches of rhetoric. The	guided discovery. Presentation, conceptual	
	<i>Keywords</i> : confirmation bias, availability bias, etc.	clarifications, practical activities, group activities,	
10.	Biases in research.	Presentation, conceptual	
	apophenia etc.	activities, group activities, guided discovery.	
9.	Biases in reasoning. Keywords: anchoring bias,	Presentation, conceptual clarifications, practical	
	correlation, spurious correlation, spurious causation, mediation, moderation.		
	Keywords: causal fallacies,	activities.	
8.	Logical fallacies: fallacies in causal reasoning.	Presentation, conceptual clarifications, practical	
	<i>Keywords</i> : formal and informal fallacies, fallacies of relevance.	activities.	
	relevance.	clarifications, practical	
7.	Logical fallacies: fallacies of	Presentation, conceptual	
	validity tests.	activities, group activities, guided discovery.	
	propositional logic. Applications. <i>Keywords</i> : analytic tableaux rules,	synthesis, conceptual clarifications, practical	





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8.2 Seminar/Laboratory	Teaching methods	Observations

9. The correspondence between the content of the course and the expectations of the academic community, professional associations and representative employers in the field:

The course develops analytic thinking skills coupled with a critical-thinking and scientifically-oriented approach to discourses, ideas, arguments, problems. The course also offers state of the art research skills that are transferable to any scientific and applied figld of knowledge



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#### 10. Assessment

Type of activity	10.1 Assessment criteria	10.2 Assessment methods	10.3 Percentage of the final grade
10.4 Course	Writing examinations (3 Multiple Choice Tests)	Evaluation of the tests	90
10.5 Seminar/			
Laboratory			
	<i>Ex officio</i> : 1 point		
10.6 Minimum sta	andard of performance		
For grade 5: obtain cumulatively 4 points at the examinations.		For grade 10: obtain cumulatively 9 points at the examinations.	

Date 16.09.2024	Course holder signature	Seminar holder signature
Date of departmental approval	Head of department sig	gnature