



Theory of Knowledge

Educational subject description sheet

Basic information

Study programme Liberal Arts and Sciences (English programme)	Didactic cycle 2023/24
Speciality -	Subject code 18LENS.11P.02947.23
Organizational unit Faculty of History	Lecture languages English
Study level First-cycle programme	Course type Obligatory
Study form Full-time	Block Basic subjects
Education profile General academic	
Subject coordinator	Łukasz Różycki
Lecturer	Mateusz Stróżyński
Period Semester 1	Activities and hours • Classes: 30, Graded credit; including sub-activities: ◦ Synchronous classes: 30
	Number of ECTS points 5

Goals

Code	Goal
C1	familiarizing students with the most important concepts of cognition in historical terms, starting from the ancient concepts to the 21st century philosophy of science
C2	students are able to discuss the most important problems and questions related to human cognition and knowledge and indicate the actuality of historical discussions on them
C3	students are able to discuss the main models of scientific explanation proposed in the 20th and 21st centuries philosophy of science

Entry requirements

There are no prerequisites.

Subject learning outcomes

Code	Outcomes in terms of	Learning outcomes	Examination methods
Knowledge - Student:			
W1	has historical and systematic knowledge on the evolution of epistemological positions and major explanatory models in the philosophy of science	LEN_K1_W01, LEN_K1_W02, LEN_K1_W04, LEN_K1_W07, LEN_K1_W08, LEN_K1_W10	Oral colloquium
Skills - Student:			
U1	is able to analyze the main issues belonging to the area of epistemology and explain their meaning and correctly characterizes the main features of the discussed models of scientific explanation	LEN_K1_U02, LEN_K1_U03, LEN_K1_U08, LEN_K1_U09	Oral colloquium
Social competences - Student:			
K1	is ready to take into account the role of epistemological and methodological issues in the implementation of the research process	LEN_K1_K01, LEN_K1_K02, LEN_K1_K04	Oral colloquium

Study content

No.	Course content	Subject learning outcomes	Activities
1.	What does the history and philosophy of science deal with.	W1	Classes, Synchronous classes
2.	The problem of the scientific method and the evolution of science.	W1, K1	Classes, Synchronous classes
3.	The problem of demarcation.	W1, K1	Classes, Synchronous classes
4.	Science and the criterion of truth.	W1, K1	Classes, Synchronous classes
5.	Models of scientific explanation: a. deductive-nomological b. Salmon's theory c. van Fraassen's view, d. unificationist approach, e. mechanistic explanation, f. manipulative-counterfactual approach, g. functional explanation.	W1, U1, K1	Classes, Synchronous classes

Additional information

Activities	Teaching and learning methods and activities
Classes	Conversation lecture, Discussion, Work with text

Activities	Credit conditions
Classes	Grade scale: very good (bdb; 5.0): very good knowledge of the issues discussed confirmed by a test; excellent knowledge of the subject literature; constant activity in class; good plus (+db; 4.5): as above, with slight shortcomings in the knowledge tested during the colloquium; good (db; 4.0): good knowledge of the issues discussed, confirmed on the colloquium; satisfactory knowledge of the subject literature; unsystematic activity in class; Sufficient plus (+dst; 3,5): satisfactory knowledge of the issues discussed; average knowledge of the subject literature; Sufficient (dst; 3.0): Selective knowledge of the essential issues discussed during the classes, lack of knowledge of the literature; poor activity during classes unsatisfactory (ndst; 2,0): unsatisfactory knowledge of the issues discussed during classes; lack of knowledge of the readings; inactivity during classes during classes.

Literature

Obligatory

1. Ladyman, J., Understanding philosophy of science, London-New York 2002.
2. Glennan S., The New Mechanical Philosophy, Oxford 2017.
3. Dilworth C., The Metaphysics of Science. An Account of Modern Science in Terms of Principles, Laws and Theories, 2nd edition, Boston 2006.

Optional

1. Agazzi E., Varieties of Scientific Realism. Objectivity and Truth in Science, Springer 2017.
2. Wesley S., Kitcher P., Scientific Explanation, Minneapolis 1989.
3. Wesley S., Causality and Explanation, Oxford 1998.
4. Wesley S., Scientific Explanation and the Causal Structure of the World, Princeton-New Jersey 1984.

Calculation of ECTS points

Activities	Activity hours*
Classes	30
Reading the indicated literature	50
Preparation for the assessment	40
Preparation for classes	30
Student workload	Hours 150
Number of ECTS points	ECTS 5

* academic hour = 45 minutes

Efekty uczenia się dla kierunku

Kod	Treść
LEN_K1_K01	The graduate is ready to act in accordance with the norms of social and research ethics
LEN_K1_K02	The graduate is ready to nurture and popularize the heritage of European civilization
LEN_K1_K04	The graduate is ready to promote science among non-specialists
LEN_K1_U02	The graduate can apply in-depth knowledge of the humanities and sciences in research
LEN_K1_U03	The graduate can read with an understanding professional scientific texts in the humanities and sciences, with an awareness of the need for their critical evaluation
LEN_K1_U08	The graduate can take part in discussions on topics learned in the course of studies with respect for the rules of sound argumentation
LEN_K1_U09	The graduate can plan and implement a lifelong learning process
LEN_K1_W01	The graduate knows and understands philosophical approaches defining the role, and goals of science and its place in European civilization over the centuries
LEN_K1_W02	The graduate knows and understands selected aspects of the history of the Artes Liberales tradition and its interrelationships with contemporary scientific and didactic concepts
LEN_K1_W04	The graduate knows and understands the key terminology of the main disciplines in the humanities, social sciences, sciences and natural sciences
LEN_K1_W07	The graduate knows and understands stages of development of European civilization with its cultural, religious, economic and political characteristics
LEN_K1_W08	The graduate knows and understands the processes of development of the sciences and selected issues of contemporary research
LEN_K1_W10	The graduate knows and understands the processes of development of experimental sciences and selected issues of contemporary research