| The field of the study | Biology |
|---|--|
| The title of the course | Methodology of the social and life sciences |
| The lecture language | English |
| Type of the course | Obligatory |
| (obligatory/optional) | |
| The study level | II (masters) |
| The year of the studies | I |
| semester | 1 |
| Number of ECTS credit points with | 3 (1,52 / 1,48) |
| division into contact / non-contact | |
| points | |
| Name and surname of a | Prof. dr hab. Jerzy Demetraki-Paleolog |
| person who is responsible | |
| for this course | Don't of Lorent house French with the Committee and |
| Department that offers the module | Dept. of Invertebrates Ecophysiology of and the Experimental Biology |
| The objective of the course | Developing a creative and critical approach to scientific truths and research methodology, based on the principles of epistemology and natural philosophy. |
| Education outcomes: the total number of | Knowledge: a student knows |
| the outcomes cannot exceed 4-8 for a | W1. in an in-depth way the principles of epistemology, the |
| module. | essence of methodological disputes and the basic methodological |
| One should present the description of | conceptual apparatus concerning scientific research, and in |
| the education outcomes; the student | particular inference and knowledge-forming activities. |
| should reach after completing the | Skills: a student is able to |
| module. One should describe the | U1. apply knowledge of methodology when interpreting research |
| outcomes for all the applied forms of classes altogether. | results, formulating and evaluating hypotheses, theorems and |
| | theories, looking critically at scientific achievements. |
| | The social values and attitudes: a student |
| | K1. has a critical but creative attitude towards the knowledge- |
| | creating processes and cognitive activities being aware of the |
| | responsibility that facing the researcher of society and nature. |
| Ways of verifying and documenting | METHODS OF VERIFICATION AND RATING: |
| of the achieved outcomes of | W1, U1, K1 – assessment of the written final tasks |
| educating. | Archiving in the paper form. |
| Elements and weights affecting the | Final grade = 40% average of the grades for partial works, |
| final rating | 60% grade for the final task. These conditions are presented in the first lesson of the course. |
| | Attendance at lectures - according to Study Regulations. |
| Preliminary and additional requirements | Not required |
| Contents of the module – 100 | We will discuss the main aspects of epistemology and specificity |
| words. | of the cognitive process and main methodological disputes in this |
| | context. An attention will be paid to the historical aspects, |
| | philosophical perspective and social conditions. We will consider |
| | various ways of verifying the truth and legitimacy of the scientific |
| | ideas, hypothesis and theories. We will include an analysis of |
| | subsequent stages of acquiring knowledge and formulating |
| | scientific laws, in particular we will compare formal and natural |
| | sciences as well as natural and social sciences. |
| | Theoretical analysis of the laws of science and nature will be |
| | applied. We will pay the particular attention to the critical |
| | approach to all sorts of theories and the processes of the scientific |
| | l |

| Recommended books or obligatory books The planned forms /activities/ didactic methods | I. Niiniluoto, Matti Sintonen, Jan Wolenski; Handbook of Epistemology. Springer Science & Business Media, 31 mar 2004 – 1052p R.L. Kirkham; Theories of truth: a critical introduction. MIT Press, Cambridge, MA, 1992. Auditoria and discussion lectures, discussing of the self-written tasks. |
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| The balance of ECTS points | The workload that require direct participation of lecturers (the non-contact hours): - Auditoria lectures (30 hours -1.2 ECTS) - partial tasks (3 hours./0.12 ECTS) - the final task (2 hours./0.08 ECTS) - Consultations (3 hours /0.12 ECTS) Total- the contact hours 38 – 1.52 ECTS The workload that does not require direct participation of lecturers (the non-contact hours): Preparing and writing partial tasks (10 hours./0,4 ECTS) Individual learning (20 hours – 0.8 ECTS) Preparing of the final task (7 hours – 0.28 ECTS) |
| Levels of achieving of the educating outcomes for the study field: | Total; non-contact hours – 37 hours – 1.48 ECTS W1-BI2_W01 U1-BI2_U05 K1- BI2_K03 |