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	Ι
semester	
Number of ECTS credit points with	3 (1,52 / 1,48)
division into contact / non-contact points	
Name and surname of a	Drof dr hah Jarry Domotroli Delector
person who is responsible	Prof. dr hab. Jerzy Demetraki-Paleolog
for this course	
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 module. One should describe the	Skills: a student is able to
outcomes for all the applied forms of	U1. apply knowledge of methodology when interpreting research
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
Ways of verifying and documenting	responsibility that facing the researcher of society and nature. 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

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. <u>MIT Press. Cambridge. MA. 1992.</u> Auditoria and discussion lectures, discussing of the self- written tasks.
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 ECTSThe workload that does not require direct participation of lecturers (the non-contact hours):Preparing and writing partial tasks (10 hours./0,4 ECTS)Preparing of the final task (7 hours – 0.28 ECTS)Total; non-contact hours – 37 hours – 1.48 ECTS
Levels of achieving of the educating outcomes for the study field:	W1-BI2_W01 U1-BI2_U05 K1-BI2_K03