The field of the study	Biology
The title of the study The zitle of the course	Methodology of the social and life sciences
The lecture language Type of the course	English
(obligatory/optional)	Obligatory
The study level	II (masters) part-time
•	ii (masters) part-time
The year of the studies	
semester	1
Number of ECTS credit points with	3 (0,84 / 2,16)
division into contact / non-contact	
points	
Name and surname of a	Prof. dr hab. Jerzy Demetraki-Paleolog
person who is responsible	
for this course	Dont of Inventable to Ecombinish over of and the
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	Knowledge: a student knows
number of the outcomes cannot	
exceed 4-8 for a module.	W1. in an in-depth way the principles of epistemology, the
One should present the description of	essence of methodological disputes and the basic
the education outcomes; the student should reach after completing the	methodological conceptual apparatus concerning scientific
module. One should describe the	research, and in particular inference and knowledge-forming
outcomes for all the applied forms of	activities.
classes altogether.	
	Skills: a student is able to
	U1. apply knowledge of methodology when interpreting
	research 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	METHODS OF VERIFICATION AND RATING:
documenting of the achieved	W1, U1, K1 – assessment of the written final task.
outcomes of educating.	Assessment of written partial tasks
Elements and weights affecting	Final grade = 40% average of the grades for partial
the final rating	works, 60% grade for the final task. These conditions
	are presented in the first lesson of the course.
D 11 1 1 1 1 1 1	Attendance at lectures - according to Study Regulations.
Preliminary and additional	Not required

Contents of the module – 100 words.	We will discuss the main aspects of epistemology and specificity 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
Recommended books or obligatory books	 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.
The planned forms /activities/didactic methods	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 (18 hours – 0.72 ECTS) - Consultations (3 hours – 0.12 ECTS) Total- the contact hours 21 hours – 0.84 ECTS
	The workload that does not require direct participation of lecturers (the non-contact hours): Preparing and writing partial tasks, (20 hours – 0.8 ECTS) individual learning (17 hours – 0.68 ECTS) Preparing of the final task (17 hours – 0.68 ECTS) Total; non-contact hours – 54 hours – 2.16 ECTS
Workload related to classes requiring direct participation of an academic teacher	 Auditoria lectures -18 hours Consultations -3 hours
Levels of achieving of the educating outcomes for the study field:	W1-BI2_W01 U1-BI2_U05 K1- BI2_K03