	BZ2n_002
Field of study	Animal Behaviour
Name of Module	Behavioural and physiological animals' adaptation to environment
	Behawioralna i fizjologiczna adaptacja zwierząt do środowiska
Language of Module	English
Type of Module	optional
(obligatory/optional)	
Level of Module	2 non-stationary studies
Year of study	1
Semester	1
ECTS number including	4
contact/ non-contact	1,2/2,8
Last name and name of	Monika Budzyńska – dr hab.
responsible lecturer –	
scientific degree	
Accompanying persons	-
Unit offering the module	Department of Animal Ethology and wildlife Management
Aim of Module	The aim of the module is to get knowledge about adaptation forms conducted on
	the way of changes in behaviour and physiology that can be found in animal world in
	the aspect: cause-effect as well as to realize the relationship between conditions
	made by human and adaptive possibilities of animals
Learning Outcomes	Knowledge:
	K1. Student explains the key function of behavioural and physiological traits in animal adaptation
	K2. Student understands relationship between environment conditions and
	adaptive possibilities of domesticated and wild animals
	Skills:
	S1. Student is able to prepare and present the project dealing with some animals'
	behaviour strategies that allowing them to adapt to the environment
	Social competences:
	SC1. Student understands the need of self-learning and using available sources of
	references to update their knowledge

Mays of varification and	Critoria used during accomment:					
Ways of verification and forms of documentation of learning outcomes	 Criteria used during assessment: Student shows satisfactory (3.0) level of knowledge or skills, when receives from 51 to 60% of sum of points describing maximal level of knowledge or skills in particular course Student shows satisfactory plus (3.5) level of knowledge or skills, whereceives from 61 to 70% of sum of points describing maximal level of knowledge or skills in particular course Student shows good (4.0) level of knowledge or skills, when receives from 51 to 80% of sum of points describing maximal level of knowledge or skills in particular course Student shows good (4.0) level of knowledge or skills, when receives from 51 to 80% of sum of points describing maximal level of knowledge or skills particular course Student shows good plus (4.5) level of knowledge or skills, when receives from 81 to 90% of sum of points describing maximal level of knowledge or skills particular course Student shows very good (5.0) level of knowledge or skills, when receives monthan 91% of sum of points describing maximal level of knowledge or skills particular course Stills: U1. presentation and assessment of student project 					
	Social competences: SC1. activity during classes, presentation and assessment of student project					
First and additional requirements	-					
Description of module – around 100 words Recommended list of references or obligatory books	The issues connected with behavioural and physiological mechanisms of animals' adaptation as a response to changes in their environment are involved in this module. The importance of differences in plasticity of behaviour in domesticated and wild animals will be underlined. The module content includes mechanisms of behavioural and physiological adaptation of animals living in different climate conditions, in land and water environment as well as in the environment made by a man. Adaptive functions of innate and learned behaviour, styles of animals' response in stressful situation as well as the importance of physical and behavioural comfort in their management and use are included. Kaleta T.: Zachowanie się zwierząt: zarys problematyki. SGGW Warszawa 2014 (rozdz. behawior a przystosowanie do otoczenia) Schmidt-Nielsen K.: Fizjologia zwierząt. Adaptacja do środowiska. PWN Warszawa 2008					
	Warszawa 2001 Trojan M.: Zachowanie się zwierząt. Przegla psychologii porównawczej. VIZJA PRESS Wa	ąd wybranych zagadn				
Planed teaching	Lecture, practical, writing test, preparing a		tating student			
forms/actions/methods	project					
ECTS Credits	Contact					
		hours	<i>ECTS</i> 25hours=1 ECTS			
	lectures	9	0,36			
	auditorium practicals	3	0,12			
	laboratory practicals	6	0,24			
	consultations	10	0,4			
	exam	2	0,08			

	Tota	l contact	30	1,2		
	Non-contact					
	Preparing for practicals		15	0,6		
	Preparing the project		25	1,0	-	
	Preparing for exam		30	1,2		
	Tota	l non-contact	70	2,8		
Work connected with classes	Participation in lectures		9	0,36	0,36	
involving direct participation	Participation in auditorium practicals		3	0,12	0,12	
of teacher	Participation in laboratory practicals		6	0,24	0,24	
	consultations		10	0,4	0,4	
	exan	n	2	0,08		
	тот	AL with direct teacher involvement	30	1,2		
Work connected with	Part	cipation in laboratory practicals	6	0,24		
practical classes	Prep	aring for practicals	15	0,6		
	Prep	aring the project	25	1,0		
	Prep	aring for exam and participation	32	1,28		
	Tota	l practical	78	3,12		
Detailed programme of	lectu	ires: 9 h			h	
lectures and practicals with	1. Module description			0,5		
regard to number of hours	2. The term of adaptation, its forms and importance for animals			1		
	3. Influence of anthropogenic environmental changes on behaviour of vertebrates			1		
	4. Stress and neuroendocrine adaptation			2		
	5.	Adaptation and individual differences In	animal behaviour		2,5	
	6. Practical use of knowledge about adaptive mechanisms			2		
	(L – laboratory, A – auditory)					
	(total number of practicals:9 L –6 , A -3)					
	1. Choosing of Project. Rules of preparing and assessment of projects. Sources and ways of choosing the content			0,5 -A		
	2. Levels of interactions: physiology - behaviour			2 - A		
	3. Adaptations of animals to different environmental conditions			1- L		
	4. Adaptation of domesticated and wild animals to environment made by a man			2 - L		
	5. Adaptive mechanisms in animal feeding			1 - L		
	6. Predator – prey: animal adaptations			2 - L		
	7.	test			0,5- A	
Degree of field learning	field learning outcomes and symbols "+" "++" "+++" describing the degree involving					
outcomes achievement:						
	BZ2_K04++					
	BZ2_K10++					
	BZ2_S03++					
	BZ2_S07++					
	BZ2_	_SC01+				