Module of classes:

PHENOMENOM OF SEASONALITY IN SMALL RUMINANTS

ECTS	2
Status	complementary
Form of final credit	exam
Prerequisites	passing the subject animal physiology

Field of study:

Animal Sciences

Profile of study	General-academic
The code of the form of study and the level of study	master of thesis
Semester of study	summer
Language of study	English

The leading faculty, department and the lecturer of the module: Prof. dr hab. Dorota Zięba-Przybylska

Name of the competent unit for the coordinator	Faculty of Animal Sciences, Department of Nutrition, Animal Biotechnology and Fisheries
Courese coordinator	Prof. dr hab. Dorota Zięba-Przybylska

Learning outcomes of the module/subject

The code of the	Description		(code)
description component (symbol of the effect)			discipline#
	KNOWLEDGE – the student knows and/or understands:		
PSSR_W1	structure of cells and tissues related to the work of the biological clock in sheep, characterizes the rhythmic functioning of cells, tissues, organs and systems of the sheep body, describes the processes of seasonality of reproduction and lactation in small ruminants.	ZOO2_W01	RZ
PSSR_W2	mechanisms of molecular processes related to the mechanism of the biological clock in all living organisms. Knows the basics of molecular genetics.		RZ
PSSR_W3	advanced theoretical aspects of animal husbandry and breeding methods; the suitability of different animal species as models in biological and medical research.	ZOO2_W11	RZ
	SKILLS – the student can: not applicable		
	SOCIAL COMPETENCE- the student is ready to:		
PSSR_K1	undertake actions leading to reduction of risk and predicting the effects of human activities in the area of zootechnics and animal living environment.	ZOO2_K04	RZ
PSSR_K2	solving complex decision problems related to the use of animals.	ZOO2_K05	RZ
PSSR_K3	care for animal welfare and the shaping and condition of the natural environment.	ZOO2_K06	RZ

Teaching content:

Lectures	15	hours

	Biological rhy	thms - features	and characteristics.				
			unctioning of the biological	clock of animals.			
			of the biological clock.				
			ctioning of the biological clo	ck in animals			
Subjects of ectures					alamus lontin r	ocietaco and	nhotoneriod
ectures	ivioleculai asp	Jecis of Modula	tion of leptin sensitivity on t	ne level of hypoth	alamus - lepum	esistace and	priotoperioa.
			ne course of sexual activity reproductive processes.	in sheep: regulation	on of gonadotrop	oic hormone	secretion and
		nievements in the processes in rui	ne world literature regarding minants.	the participation	of photoperiod ir	n the regulati	on of
Realized learr	ning outcomes		PSSR_W1- W3; PSSR4_	K1-K3			
Verification methods and criteria of effects evaluation		short open test					
			•		r	ot applicab	le hours
Classes (labo	oratories, field e	xercises, audi	torium exercises etc)			0	hours
Subjects of th classes	е						
Realized learr	ning outcomes		not aplicable				
Verification mevaluation	ethods and criter	ia of effects	not aplicable				
Seminars			•			0	hours
Subjects of th seminars	е						
Realized learr	ning outcomes		not aplicable				
Verification methods and criteria of effects evaluation			not aplicable				
Literature:			•				
3asic			in sheep and goats. Ian Go I of reproduction. Ophysiolo			c Societies p	ress Karger
Supplementar	у	leptin suppres in seasonal be D.A. Zieba, M Stepien, D.H.	. Klocek, G.L. Williams, K. F sses melatonin secretion du reeding ewes. Domest. Ani l. Szczesna, B. Klocek-Gorl Keisler, M. Murawski. Seas etion and on SOCS-3 gene	ring long days and m. Endocrinol. 200 ka, E. Molik, T. Mis sonal effects of cel	d stimulates its s 07; 33(3): 358-36 sztal, G.L. Willian ntral leptin infusi	ecretion dur 65. ms, K. Roma on on melato	ing short days nowicz, E. onin and
Structure of	learning outcom	nes:					
Dyscipline – animal husbandry and fishery (RZ)			Z)			2	ECTS*
)yscipline –		ion				•••	ECTS*
	student's activit		the teacher	05	h	4	*
classes carried out with direct participation of		participation of	the teacher	25	hours	1	ECTS*
عماييط! بمصن	lectures			15	hours		
ncluding:		ominore					
ncluding:	classes and s	eminars		0 7	hours		

	participation in research	0	hours	•	
	mandatory practices and internships	0	hours	•	
	participation in the exam and credits	3	hours	•	
classes carrie	ed out with the use of e-learning	0	hours	0	ECTS [*]
student's own work		25	hours	1	ECTS [*]

^{) * -} Reported to the nearest to 0,1 ECTS, where 1 ECTS = 25-30 hours of classes

^{) #} discipline code: RZ - zootechnics and fishery, PB - biological sciences