

Module of classes:

**SWINE BREEDING, BEHAVIOUR AND WELFARE**

ECTS	5
Status	complementary
Form of final credit	exam
Prerequisites	basic agricultural knowledge, basic knowledge in animal husbandry and animal science

**Field of study:**

**ANIMAL SCIENCE**

Profile of study	General-academic
The code of the form of study and the level of study	bachelor
Semester of study	winter or summer
Language of study	English

**The leading faculty, department and the lecturer of the module:**

Name of the competent unit for the coordinator	Faculty of Animal Sciences, Department of Genetics, Animal Breeding and Ethology
Course coordinator	DSc. Jacek Nowicki, Associate Professor

**Learning outcomes of the module/subject**

The code of the description component (symbol of the effect)	Description	Relation to (code)	
		field effect	discipline#
<b>KNOWLEDGE – the student knows and/or understands:</b>			
SBW_W1	basic rules of the pig farming taking into account a high level of animal welfare	ZOO1_W01 ZOO1_W09 ZOO1_W11 ZOO1_W17	RZ
SBW_W2	the criteria for assessing the welfare level of pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
SBW_W3	the indicators of reduced welfare in pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
SBW_W4	conditions and factors affecting the welfare of pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
<b>SKILLS – the student can:</b>			
SBW_U1	assess the welfare of pigs on the basis of available criteria	ZOO1_U09 ZOO1_U17	RZ
SBW_U2	interpret the behaviour of pigs in different housing conditions	ZOO1_U03 ZOO1_U09 ZOO1_U17	RZ
SBW_U3	analyze the microclimate parameters and prevent deterioration of the animal welfare	ZOO1_U09 ZOO1_U17 ZOO1_U18	RZ

**SOCIAL COMPETENCE- the student is ready to:**

SBW_K1	creatively and constantly develop the ability to prevent negative events occurring on farms which decrease the pig welfare	ZOO1_K04 ZOO1_K06	RZ
SBW_K2	take care of own safety and the people working with during the work in the pig farm	ZOO1_K09 ZOO1_K10	RZ

**Teaching content:**

**Lectures** **30** **hours**

Subjects of lectures	Terms used in pig production
	Rules of care and rearing piglets
	Essentials of feeding
	Housing systems for pigs taking into account adaptation possibilities
	Fattening and slaughter value evaluation methods
	Essentials of reproduction
	Natural behaviour of pigs
	Advances in the study of cognition, behavioural priorities and emotions
Pigs and humans interactions - the impact on productive results	
Welfare of pigs during transport and slaughter	

Realized learning outcomes	SBW_W1, SBW_W2, SBW_W3, SBW_W4
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Verification methods and criteria of effects evaluation	Exam - choice test. 50% of correct answers must be provided to pass the exam. The share of the lecture grade in the final grade is 50%
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**Classes (auditorium exercises)** **15** **hours**

Subjects of the classes	Welfare of pigs in the farrowing environment – assessment methods for piglets and sows
	Behavioral tests of maternal responsiveness of sows
	Housing the fattening pig – the impact on welfare and economic results
	Behavioural tests of cognition abilities
Welfare of gestation and dry sows in different housing systems – methods of evaluation	

Realized learning outcomes	SBW_U1, SBW_U2, SBW_U3, SBW_K1, SBW_K2
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Verification methods and criteria of effects evaluation	Passing the excercises, choice test - 50% of correct answers must be provided to pass the excercises. The share of the excercises grade in the final grade is 50%
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**Seminars** **0** **hours**

Subjects of the seminars	
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Realized learning outcomes	
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Verification methods and criteria of effects evaluation	
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**Literature:**

Basic	<ol style="list-style-type: none"> <li>1. <i>Domestic animal behaviour and welfare</i>, D.M. Broom, A.F. Fraser, CAB International, 2007;</li> <li>2. <i>Principles of Pig Science</i>, D.J.A. Cole, J. Wiseman and M.A. Varley, Nottingham University Press, 1994</li> <li>3. <i>The Sow: Improving her efficiency</i>, P.R. English, W.J. Smith and A. MacLean, The Farming Press, 1982</li> </ol>
Supplementary	<i>The Welfare of pigs</i> , edited by J.N. Marchant-Forde, Springer, 2009

**Structure of learning outcomes:**

Discipline – animal husbandry and fishery (RZ)	5	ECTS*
Discipline	0	ECTS*

**Structure of student's activities:**

classes carried out with direct participation of the teacher	62	hours	2,5	ECTS*
including:				
lectures	30	hours		
classes and seminars	15	hours		
consultations	11	hours		
participation in research	0	hours		
mandatory practices and internships	0	hours		
participation in the exam and credits	6	hours		
classes carried out with the use of e-learning	0	hours	0	ECTS*
student's own work	63	hours	2,5	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