Course 06-EMS-APFPQ-SP1 / 06-EMS-APFPQ-SP2 code:

1. INFORMATION ABOUT THE COURSE

A. Basic information

Name of course	Animal production, feed materials, and product quality
Field of studies	
Level of studies	
Profile of studies	General academic
Form of studies	
Specialty	
Unit responsible for the field of studies	
Name and academic degree of teacher(s)	dr hab. inż. Mirosław Banaszak, prof. PBŚ, dr inż. Kamil Siatka, dr inż. Iwona Zaremba, mgr inż. Sebastian Wlaźlak, mgr inż. Bartosz Bigorowski
Introductory courses	
Introductory requirements	

B. Semester/week schedule of classes

Semester	Lectures (W)	Auditorium classes	Laboratory classes	Project classes	Seminar	Field classes	Number of ECTS points
		(Ć)	(L)	(P)	(S)	(T)	-
Winter/summer	20		20				8

2. LEARNING OUTCOME

No.	Learning outcomes description	The reference to the learning outcomes of specific field of study	The reference to the learning outcomes for the area			
	KNOWLEDGE					
W1	Student has knowledge about the possibilities of using					
	biological sciences in breeding and keeping animals.					
	Student knows the basic incubation of hatching eggs of					
	different species of poultry.					
	Student should possess some basic knowledge about cattle					
	production, milk production, and beef meat.					
W2	Student has knowledge of national and EU legislation					
	relating to modern technologies of breeding and keeping					
	animals.					
	Student knows and understands poultry farming					
	technologies, including feeding, and methods of assessing					
	the utility value of poultry, including the quality of poultry					
	products.					
SKILLS						

U1	Student can perform a basic analysis of the quality of animal products and feedstuff using research equipment. Student has the basic skills in using new technologies, organization methods, and management in cattle production.						
U2	Student can incubate poultry hatching eggs and analyze hatching indicators.						
	SOCIAL COMPETENCES						
K1	Student shows an ethical attitude towards animals and understands the importance of well-being in animal production. Student is aware of the need to further expand and update knowledge in the context of poultry farming. Student should be able to formulate ideas, express opinions, and debate about the future of cattle production.						

3. TEACHING METHODS

Multimedia presentations, laboratories, display, discussions, lecture

4. METHODS OF EXAMINATION

Colloquium, paper/report

5. SCOPE

Lectures	1.	Poultry production and breeding aspects. Broiler chicken production		
		technology with breeding elements. Laving hens production technology with		
		breading elements		
	2.	The origin and domestication of cattle. Types of utility and race. Methods of		
		formation (extensive and intensive farming). Reproduction. The current		
		organizational and economic problems of farming cattle. Biodiversity. Market		
		conditions for the production of milk and beef. Improvement of breeding—the		
		use of milk and beef.		
	3.	Biosecurity and welfare in animal production.		
	4.	Animal feeding – the basis and trends, innovations for sustainable animal		
		production		
Classes/Laboratories	1.	The quality of poultry products - characteristics. Assessment of poultry meat		
		and egg quality. Incubation of hatching eggs as a basis of poultry production.		
	2.	Cattle production in Poland and around the world. Products derived from cattle		
		(milk, meat, skin, manure). The quality of milk and beef, and the European		
		Union's requirements.		
	3.	. Cattle nutrition. The technology of production. Cattle housing systems. Cattle		
		reproduction. Importance of cattle in agrotourism farms. Cattle welfare.		
	4.	Laboratory analysis of the chemical composition of feedstuff.		

6. METHODS OF VERIFICATION OF LEARNING OUTCOMES

	LEARNING OUTCOME	Form of assessment					
		Oral examination	Written exam	Colloquium	Project	Presentation	Paper/report
	W1			Х			
	W2			X			
	U1						Х
	U2						Х
	K1			X			Х

7. LITERATURE

Basic literature	
Supplementary	
literature	

8. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE EXPECTED LEARNING OUTCOMES EXPRESSED IN TIME AND ECTS CREDITS

S	Student workload– number of hours	
Classes conducted under a	Participation in classes indicated in point 1B	40
direct supervision of an academic teacher or other persons responsible for classes	Supervision hours	10
	Preparation for classes	60
Student's own work	Reading assignments	50
	Other (preparation for exams, tests, carrying out a project etc)	40
Total student workload	200	
	8	