



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Animal Production and Management

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Course Offer for exchange students - second cycle studies, including uniform master studies (MA programmes)		<b>Didactic cycle</b> 2024/25	
<b>Speciality</b> -		<b>Subject code</b> PWMPWM2S_D.B100000.06277.24	
<b>Organizational unit</b> Course Offer for exchange students		<b>Lecture languages</b> english	
<b>Study level</b> second cycle studies, including uniform master studies (MA programmes)		<b>Mandatory</b> Elective subjects	
<b>Study form</b> full-time studies		<b>Block</b> Basic subjects	
<b>Education profile</b> General academic		<b>Disciplines</b> Animal husbandry and fishery	
<b>Coordinator</b>	Kamila Puppel		
<b>Teacher</b>	Kamila Puppel		
<b>Period</b> Winter semester	<b>Examination</b> Pass with grade	<b>Number of ECTS points</b> 5	
	<b>Activities and hours</b> Lecture: 30 Project exercises: 45		

## Goals

Code	Goal
C1	□ give participants the means of acquiring a broad-based knowledge and understanding of the major farm animal production systems ranging animal environments through to an overview of the rural economy of the Poland.
C2	□ demonstrate and facilitate the acquisition of animal handling skills and provide experience of practical farm animal working environments at key points in annual production cycles.
C3	□ encourage awareness of contemporary animal production in contributing to the well-being of animals and man and of the ethical and welfare issues which surround these.

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	describe the underpinning biological and production processes involved in modern farm animal systems in Poland.		Project
<b>Skills - Student can:</b>			
U1	recognise and describe the stages of production of farm animals on-farm		Project
U2	restrain, body condition score and age cattle and sheep		Project
<b>Social competences - Student is ready to:</b>			
K1	show proficiency in the use of computer web-based and library search engines to obtain information for project topics.		Project
K2	demonstrate collaboration with others in investigating specified topics and solving problems.		Project

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Cattle. Poland dairy industry, overview of management systems, factors affecting milk composition and hygiene properties, economics. Breeding replacements, guide to modern dairy cow selection./Recording systems: production, fertility, milk yield/composition, herd health. Industry structure, beef cow systems/Beef production systems, carcass grading.	W1, U1, U2, K1, K2	Lecture, Project exercises

No.	Course content	Subject's learning outcomes	Activities
2.	Sheep. Poland sheep industry, overview of management systems/Weaning to conception: selection of breeding stock, breeding management, oestrus synchronisation. Conception to parturition: feeding, housing, management at lambing, hypothermia./ Parturition to weaning: abortion diseases and vaccinations, lactation, feeding, grazing systems, anthelmintics protocols, lamb carcass classification, store lamb finishing.	W1, U1, U2, K1, K2	Lecture, Project exercises
3.	Poultry. The poultry industry, rearing/brooding layers, breeding stock, incubation .Table egg production systems and housing, welfare, Broiler and turkey production systems	W1, U1, U2, K1, K2	Lecture, Project exercises
4.	Pig. Production industry, management systems. Pig reproduction, welfare and housing.	W1, U1, U2, K1, K2	Lecture, Project exercises
5.	Fur animals. Fur animals, management systems. Fur industry/meat/laboratory experiments	W1, U1, U2, K1, K2	Lecture, Project exercises
6.	Farm-based practical classes	U1, U2, K1, K2	Lecture, Project exercises

### Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, Case study, Discussion
Project exercises	Case study, Discussion, Presentation, Problem method

Activities	Examination method	Percentage
Lecture	Project	50%
Project exercises	Project	50%

Activities	Credit conditions
Lecture	Presentation
Project exercises	Presentation

### Literature

#### Obligatory

1. Campbell, J.R. (2009). Dairy Production and Processing: The Science of Milk and Milk Products. Waveland Press.
2. Harding, F. (1995). Milk Quality: A Pictorial Guide to Bacteriology of Milk. Springer.
3. Field, T.G. (2016). Beef Production and Management Decisions (7th ed.). Pearson
4. Cottle, D.J. (1991). Sheep Production: Science and Practice. CSIRO Publishing.
5. Bell, D.D., & Weaver, W.D. (2002). Commercial Chicken Meat and Egg Production (5th ed.). Springer.
6. McGlone, J. (2003). Pig Production: Biological Principles and Applications. Delmar Cengage Learning.
7. Hunter, G. (1985). Fur Animal Production. CRC Press.

## Calculation of ECTS points

<b>Activity form</b>	<b>Activity hours*</b>
Lecture	30
Project exercises	45
Preparing the project	30
Conducting literature research	20
<b>Student workload</b>	<b>Hours</b> 125
<b>Number of ECTS points</b>	<b>ECTS</b> 5

\* hour means 45 minutes