Course title:	Trends in animal production
Course title in Polish:	Trendy w produkcji zwierzęcej
Course for discipline:	Animal Science and Fisheries

Semester:	5	**Status of course:**	faculty	**Language:**	english
Academic year:	2027/28	**Catalog number:**	151/2025/26		

Coordinator of course:	Dr hab. Monika Łukasiewicz-Mierzejewska, prof. SGGW
Lecturer od course:	Academic staff of the Institute of Animal Sciences and external stakeholders
Executing unit:	Department of Animal Breeding and Nutrition
Ordering unit:	Doctoral School SGGW
Assumptions, goals and description of the course:	The aim of the course is to familiarize doctoral students with the scale of production of selected groups of farm animals in Poland and across Europe, as well as with the growing number of trends shaping specific branches of animal production. The trends discussed during the course will ultimately lead to their independent evaluation by participants, who will be expected to critically assess them and select the one they consider the most significant from their own perspective. The course will be conducted in several thematic modules focusing on selected farm animal species (including poultry, pigs, and cattle). The following key issues will be addressed: • the scale of specific animal production sectors (both in Poland and in Europe), • housing and management conditions within currently practiced production systems, • factors determining the current status of particular animal production sectors and their development potential. From a broader perspective on livestock production sectors, participants will become acquainted with current and emerging trends that already influence—or will soon influence—the direction of development within particular branches of animal production. In the 21st century, it is precisely these emerging trends, largely driven by consumer behavior, that constitute the primary determinants of producers' decisions, especially those operating within the broadly understood field of animal production. One of the key elements of effective cooperation between the academic community and the production sector is an understanding of mutual needs. By presenting participants with new tendencies and development pathways in animal production, the course will expand their opportunities for future collaboration with producers. The course will also address issues such as antimicrobial resistance and methods for its reduction, the application of artificial intelligence in animal production, and the implementation of innovative solutions aimed at improving animal welfare standards.
Didactic form, number of hours:	15 hours
Teaching methods:	Lecture, discussion, analysis and interpretation of source materials, consultations
Limit of people in the group:	

Learning outcomes

KNOWLEDGE - the graduate knows and understands:	**SKILLS - the graduate is able to:**	**COMPETENCES - the graduate is ready to:**
To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	Critically evaluate the achievments in the field/discipline represented
Major general development trends in the field/discipline		Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect
		Support the ethos of scientific circles and conduct independent research

The method of verification of learning outcomes:	Final project prepared in subgroups
Form of documentation of achieved learning outcomes:	Final project grade
Elements and weights of the final grade:	100% – final project
Place of the course:	Lecture room, MSTeams

Basic and supplementary literature

Scientific industry journals and academic textbooks: Poultry Science, Polish Journal of Food and Nutrition Sciences, Journal of the Science of Food and Agriculture, Journal of Dairy Science, Journal of Food Science, The Journal of Animal & Plant Sciences, International Dairy Journal, Meat Science, Animal Science Papers and Reports, Animals, Journal of Animal and Feed Sciences, Animal Bioscience, as well as academic textbooks on beef cattle production, pig breeding and production, and poultry production.

Comments:	

Estimated number of hours of work of the doctoral student necessary to achieve the assumed learning outcomes:	10h

Leraning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8) covering doctoral competences:		
Symbol:	**Learning outcomes:**	**8 level NQF**
SD1_KW01	To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	P8S_WG
SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KK01	Critically evaluate the achievments in the field/discipline represented	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR