

Module designation	Poultry and Non-Ruminant Nutrition
Semester(s) in which the module is taught	Even semester
Person responsible for the module	Prof. Dr. Ir. Zuprizal, DEA., IPU., ASEAN Eng. Ir. Nanung Danar Dono, S.Pt., M.P., Ph.D., IPM., ASEAN Eng.
Language	Bahasa and English
Relation to curriculum	Specialization's Elective
Teaching methods	Classical lecture and discussion
Workload (incl. contact hours, self-study hours)	Total workload: 79 hours Contact hours: - Lecture: 23 hours - Academic activity: 28 hours Private study: 28 hours
Credit points	2/0
Required and recommended prerequisites for joining the module	None
Module objectives/intended learning outcomes	<p>Course Outcomes (CO):</p> <ol style="list-style-type: none"> 1. Able to explain the complexity of poultry system production. Understand the aspects of nutrition, nutrients, the relationship between nutrients, and rules of intake in the poultry and non-ruminant animals. 2. Understand the models of nutrient evaluation, digestive processes and nutrient metabolism to conduct research in the poultry nutrition and feed science. 3. Understand the models of nutrient evaluation, digestive processes, and micro-nutrient metabolism to conduct research in the non-ruminant nutrition and feed science <p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> - Attitudes and Behaviors: <ol style="list-style-type: none"> 1. Showing the social sensitivity and attention to the community and environment by respecting the culture diversity, view, religious, beliefs, and other people's opinion, and also obey the rules. (CO2, CO3) - Mastery in Sciences: <ol style="list-style-type: none"> 1. Able to master the current animal science and its application theory. (CO2, CO3) - Special skills: <ol style="list-style-type: none"> 1. Able to make innovation in the animal husbandry based on the development of science and technology. (CO1) 2. Able to design interdisciplinary and multidisciplinary research in the animal husbandry. (CO2, CO3) - General skills: <ol style="list-style-type: none"> 1. Able to develop logical, critical, systematic, and creative thought through scientific research, creation of design in the science and technology, which pays attention and applies humanity values according to their expertise. The graduates are able to arrange scientific concept and the study result based on the principles, procedures, and scientific ethics. (CO1)

	<p>2. Able to identify the science that becomes their research object and position it to a research map by using information technology in the context of science development and expertise implementation developed through interdisciplinary or multidisciplinary approaches. (CO2)</p> <p>3. Able to communicate the result of reasoning and scientific research in form of thesis and scientific writing responsibly based on academic ethics in the accredited national journal. (CO3)</p>			
Content	<p>The Poultry and Non-ruminant Nutrition course is designed to equip students with competencies in scientific development in the fields of nutrition and feed science, digestive system, nutrient digestibility, absorption, inhibition of nutrient absorption, as well as nutrient requirements and roles in the poultry and non-ruminants. This course contains development of nutrition and animal feed, digestive tract and system, digestibility, absorption, and inhibition of nutrient absorption, metabolism, and nutrient requirements for basic living and production in the poultry and non-ruminants (rabbit, horse, and swine).</p>			
Exams and assessment formats	Assessment Components	Course Outcomes (CO)	Percentage (%)	
	1. Midterm exam (written test, take home exam, paper assignment)	CO1 & CO2	50	
	2. Final exam (written test, take home exam, paper assignment)	CO1 & CO3	50	
	Grade and Score			
	Grade	Score	Grade	Score
	A	≥80	C+	45-49,9
	A-	75-79,9	C	40-44,9
	A/B	70-74,9	C-	35-39,9
	B+	65-69,9	C/D	30-34,9
	B	60-64,9	D+	25-29,9
B-	55-59,9	D	20-24,9	
B/C	50-54,9	E	0-19,9	
Study and examination requirements	<p>The final grade in the module is composed of 50% performance on Midterm exam, 50% final exam. Students must have a final grade of 70% or higher to pass</p>			
Reading list	<ul style="list-style-type: none"> - Larbier, M. and Leclercq, B. 1994. Nutrition and Feeding of Poultry. Nottingham University Press. UK. - McDonald, P., Edwards, R.A., Greenhalgh, J.F.D., and Morgan, C.A. 2002. Animal Nutrition. Sixth Edition. Pearson Education Limited. Edinburgh Gate. Harlow. UK. - Zuprizal, M. Larbier, and A.M. Chagneau. 1992. Effect of age and sex on true digestibility of amino acids of rapeseed and 			

	<p>soybean meals in growing broilers. <i>Poultry Science</i>. 71:1486-1492.</p> <ul style="list-style-type: none">- Zuprizal, M. Larbier, A.M. Chagneau, and P.A. Geraert. 1993. Influence of ambient temperatur on true digestibility of protein and amino acids of rapeseed and soybean meals in broilers. <i>Poultry Science</i>. 72:289-295.
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