Module designation	Poultry Behavior and Welfare				
Semester(s) in which the	Even semester				
module is taught					
Person responsible for the	drh. Bambang Ariyadi, MP., Ph.D.				
module	Dr. Ir. Sri Sudaryati, MS.				
	Prof. Ir. Wihandoyo, MS., Ph.D. Dr. Ir. Heru Sasongko, MP.				
Language	Bahasa and English				
Relation to curriculum	Specialization's Elective				
Teaching methods	Classical lecture and discussion				
Workload (incl. contact hours,	Total workload: 119 hours				
self-study hours)					
	Contact hours: – Lecture: 35 hours				
	 Academic activity: 42 hours 				
	Private study: 42 hours				
Credit points	3/0				
Required and recommended	5/0				
prerequisites for joining the	None				
module					
Module objectives/intended	Course Outcomes (CO):				
learning outcomes	1. Students understand the basic concepts of behaviour starting				
	from observing instincts in livestock since hatching. Students				
	understand that livestock need action and time to adapt to				
	environmental changes through physiological morphological				
	processes. Students understand that stress is the inability of				
	livestock to acclimatize and adapt to environmental changes				
	that are given suddenly or gradually. Students understand that				
	the nerve centre is the control centre for the formation of specific behaviours to adapt.				
	2. Students are able to identify behaviours that develop into				
	positive or negative so that they can improve the production				
	system according to their level of comfort. Students are able to				
	evaluate behaviour to improve production management by				
	considering the livestock comfort. Students are able to feel the				
	"feeling of livestock" which is uncomfortable due to				
	environmental factors that are not suitable with the needs of				
	livestock. Students are able to evaluate livestock needs based				
	on the introduction of basic behaviours, such as sand bathing				
	and living in groups.				
	3. Students are able to explain that basic living needs are				
	important in raising poultry. Students are able to improve the				
	management of poultry farms based on the need of livestock				
	to increase production. Students are able to conduct research				
	on livestock behaviour in accordance with available criteria and methods.				
	Expected Learning Outcomes:				
	- Attitudes and Behaviors:				
	1. Piety to God and be able to show religious attitude and				
	maintain the humanity values in carrying the task, which is				
	based on religion, moral, and ethics. (CO1)				
	2. Be proud and love the homeland show nationalism, and				

	contribute to the improvement of the life quality in the					
	community, nation and country, and the advancement of					
	civilization according to Pancasila. (CO1)					
3	8. 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. (CO1)					
2	Be accountable in carrying the professional practice that					
	includes ability to accept accountability towards decision					
	and professional action. It shall be according to the scope					
	of the practice under their responsibility and laws. (CO1)					
– Ma	- Mastery in Sciences:					
	. Able to master the current animal science and its					
	application theory. (CO1)					
	2. Able to master the livestock production science, animal					
	nutrition and fed science, animal products technology, and					
	the livestock social economics in relation to food security					
	and environment. (CO1)					
	B. Able to master the design, management, and development					
	of livestock research. (CO1)					
•	ecial skills:					
1	. Able to make innovation in the animal husbandry based on					
	the development of science and technology. (CO1, CO3)					
2	2. Able to design interdisciplinary and multidisciplinary					
	research in the animal husbandry. (CO1, CO3)					
3	B. Able to formulate and solve problems in the national					
	development especially in terms of animal husbandry. (CO1, CO3)					
	A. Able to solve problems and anticipate issues in the					
	development of animal science and industry. (CO1, CO3)					
- 60	neral skills:					
	. 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, CO2)					
	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.					
	(CO1, CO2)					
	Able to make a decision in the context of solving problems in the development of acience and technology, which pave					
	in the development of science and technology, which pays					
	attention and applies humanity values based on analysis					
	study or experiment towards information and data. (CO1,					
	CO2)					
	A. 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					

	iourpal		(02)				
Content	 journal. (CO1, CO2) 5. Able to maintain the academic integrity generally and avoid the plagiarism practice. (CO1, CO2) 6. Able to communicate spoken and written English effectively by using the information technology for the development of animal science and its implementation. (CO1, CO2) This course focuses on studying behavior related to the comfort and 						
	This course focuses on studying behavior related to the connon and physiology of poultry. Starting with several environmental factors that affect the physiology of poultry, especially the hormonal system, laying physiology, feed physiology and stress conditions. Poultry will give a behavioral reaction. The existence of this physiological relationship with behavior is studied specifically, especially its relationship with their performance. The relationship between constitution and body morphology is a close relationship to physiology and behavior to the environment as a condition. Behavioral reactions as constituents are controlled by the central nervous system to the environment as a condition. This relationship needs attention to the maintenance system, because it will indirectly provide a specific reaction to the formation of behavior. Some forms of behavior that will be studied are feeding behavior, mating behavior, social behavior, comfort behavior. Especially for fear behavior in terms of physiological, because it is closely related to the adaptability and biosecurity of livestock to achieve a level of comfort in livestock. Several behavioral research models have also been developed to better understand the relationship between constituents and livestock conditions. The learning method is done face-to-face and also shows a short video of the formation of livestock behavior and the reaction of livestock to several objects. The assessment method emphasizes knowledge and the introduction of aspects of behavioral changes in the form of exams.						
Exams and assessment	Assessment		Course Outcomes		Percentage (%)		
formats	Component		(C	0)			
	(written test, home e: paper assignment)	exam take xam,	CO1		35		
	 2. Final exam (written test, take home exam, paper assignment) 3. Short quizzes 4. Presentation 5. Take-home written assignments 				35		
			CO3		10		
			CO3		10		
			CO3		10		
			Grade and Score				
	Grade		Score	Grade			
	A/B 7		≥80 C+		45-49,9		
			75-79,9	C	40-44,9		
			70-74,9	C-	35-39,9		
			65-69,9	C/D	30-34,9		

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	В	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	The final grade in the module is composed of 35% performance on Midterm exam, 35% final exam, 10% quiz, 10% presentation, and 10% take-home written assignment. Students must have a final					
requirements						
	grade of 70% or higher to pass					
Reading list	Learning books and articles related to the topics.					