### **Course: Tropical Poultry Industry**

1. Type : Specialization's Elective

:

- **2.** Code : PTD 6206
- **3. Credit** : 3/0
- 4. Semester : Odd
- 5. Description

Nowadays, poultry meat and egg industry plays important roles on food system, especially on supplying animal protein. Poultry industry originally come from sub-tropic regions and has growth quickly around the world, including Indonesia. Poultry industry development in tropical regions require an alteration since macro-climate affects the productivity of layer and broiler chicken. Furthermore, dissimilar social structure and diseases pattern between tropical and sub-tropical region lead to the measure that comparative study among them are necessary.

### 6. Course Outcomes (CO)

- CO 1 : Comprehend physiological-tropical environment relationship.
- CO 2 : Comprehend the development of poultry industry in both tropical and subtropical regions.
- CO 3 : Able to run poultry industry in the tropical country.

## 7. The Alignment Between CO and ELO

	ELO**																
CO*	A			В		С		D									
	1	2	3	4	1	2	3	1	2	3	4	1	2	3	4	5	6
CO 1	$\checkmark$																
CO 2												$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
CO 3								$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$						

\*CO refers to point 6.

\*\*Expected Learning Outcomes (ELO) are written below,

A. Attitudes and Behaviors							
The graduates are able to behave well, correctly, and culturally as the result of internalization and							
actualization of values and norms, which is reflected in a spiritual and social life through learning process,							
experience, research, and/or community development in the animal husbandry.							
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.							
Be proud and love the homeland show nationalism, and contribute to the improvement of the life							
2 quality in the community, nation and country, and the advancement of civilization according t	0						
Pancasila.							
3 Showing the social sensitivity and attention to the community and environment by respecting th	e						
culture diversity, view, religious, beliefs, and other people's opinion, and also obey the rules.							
Be accountable in carrying the professional practice that includes ability to accept accountabilit	•						
4 towards decision and professional action. It shall be according to the scope of the practice under	r						
their responsibility and laws.							
B. Mastery in Sciences							
Master the theory of the current science in the animal husbandry and its application.							
1 Able to master the current animal science and its application theory.							

2	Able to master the livestock production science, animal nutrition and fed science, animal products
2	technology, and the livestock social economics in relation to food security and environment.
3	Able to master the design, management, and development of livestock research.
C. 8	Special Skills
The	graduates are able to develop science, technology, and arts in the animal husbandry through
inter	disciplinary/multidisciplinary innovative and tested research.
1	Able to make innovation in the animal husbandry based on the development of science and
1	technology.
2	Able to design interdisciplinary and multidisciplinary research in the animal husbandry.
3	Able to formulate and solve problems in the national development especially in terms of animal
5	husbandry.
4	Able to solve problems and anticipate issues in the development of animal science and industry.
D. (	General Skills
The s	graduates are able to manage resources by utilizing science, technology, and arts to solve problems in
	animal husbandry with current science and also conduct research with accountability and full
respo	onsibility.
	Able to develop logical, critical, systematic, and creative thought through scientific research,
1	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.
	Able to identify the science that becomes their research object and position it to a research map by
2	using information technology in the context of science development and expertise implementation
<u> </u>	developed through interdisciplinary or multidisciplinary approaches. Able to make a decision in the context of solving problems in the development of science and
3	technology, which pays attention and applies humanity values based on analysis study or experiment
	towards information and data.
	Able to communicate the result of reasoning and scientific research in form of thesis and scientific
4	writing responsibly based on academic ethics in the accredited national journal.
5	Able to maintain the academic integrity generally and avoid the plagiarism practice.
6	Able to communicate spoken and written English effectively by using the information technology
6	for the development of animal science and its implementation.
L	

## 8. Course Content

Week CO		Topic/Subtopic	Learning	Assessment	Allocated	Lecturer
WEEK	CO	1 opic/Subtopic	Activity	Tools	Time	Letturer
	CO 1	Introduction	Classical	Midterm	2	Prof. Ir.
1			lecture,			Wihandoyo,
			discussion			MS., Ph.D
	CO 1	Poultry industry	Classical	Midterm	2	Prof. Ir.
		in Indonesia/	lecture,			Wihandoyo,
2		ASEAN/	discussion			MS., Ph.D
		subtropical				
		regions				
	CO 1	The effects of	Classical	Midterm	2	Prof. Ir.
3		macro and micro	lecture,			Wihandoyo,
		climate on poultry	discussion			MS., Ph.D

	CO 1	Energy system.	Classical	Midterm	2	Prof. Ir.
4		Energy system:		Midterm	2	
4		ME, HP, HL, and	lecture,			Wihandoyo,
		Painting	discussion			MS., Ph.D
	CO	Energy Intake,	Classical	Midterm	2	Prof. Ir.
5		ME Intake, HP	lecture,			Wihandoyo,
5		Intake, and NE	discussion			MS., Ph.D
		Intake				
	CO 2	Feed in tropical	Classical	Midterm	2	Wihandoyo,
		regions: balanced	lecture,			MS., Ph.D
6		diet,	discussion			
		micronutrients				
		manipulation				
	CO 3	Poultry waste	Classical	Midterm	2	Prof. Dr. Ir.
		management	lecture,			Sri
7		8	discussion			Harimurti,
						SU
		Mi	dterm Examir	nation		
	CO 1	Poultry behaviour	Classical	Final exam	2	Prof. Dr. Ir.
		and equipment in	lecture,	I mar exam	2	Sri
8		tropical regions	discussion			Harimurti,
		uopical legions	uiscussion			SU
	CO 1	Management of	Classical	Final exam	2	Prof. Dr. Ir.
		group rearing in	lecture,	I'lliai exalli		Sri
0			discussion			
9		tropical and	discussion			Harimurti,
		subtropical				SU
	00.1	regions				
	CO 1	Housing effects	Classical	Final exam	2	Prof. Dr. Ir.
10		on poultry	lecture,			Sri
		productivity and	discussion			Harimurti,
		products safety				SU
	CO 1	Poultry immunity	Classical	Final exam	2	drh.
11		in tropical regions	lecture,			Bambang
			discussion			Ariyadi,
						MP., Ph.D
	CO 2	Poultry disease	Classical	Final exam	2	drh.
12		management in	lecture,			Bambang
12		tropical regions	discussion			Ariyadi,
	1	-	1			

	CO 2	Housing effects	Classical	Final exam	2	drh.	
13		on	lecture,			Bambang	
15		gastrointestinal	discussion			Ariyadi,	
		health				MP., Ph.D	
	3	Industrial trip	Classical	Assignment	2	Prof. Ir.	
14			lecture,			Wihandoyo,	
			discussion			MS., Ph.D	
Final Examination							

#### 9. Assessment

Component	СО	Percentage (%) for final grade	Minimum Satisfactory Level
Midterm	CO 1	35	70
Quiz	CO 3	10	70
Presentation	CO 3	10	70
Paper	CO 3	10	70
Final exam	CO 2, CO 3	35	70
Τα	otal	100	

## **10. Lecturer**

- <sup>1.</sup> Prof. Ir. Wihandoyo, MS., Ph.D.
- <sup>2.</sup> Prof. Dr. Ir. Sri Harimurti, SU.
- <sup>3.</sup> drh. Bambang Ariyadi, MP., Ph.D.

# 11. Reference