

SEMESTER COURSE PLAN (SCP)

POULTRY LIVESTOCK PRODUCTION (23101130403)



TEACHING TEAM :

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BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
FACULTY OF ANIMAL SCIENCE
HASANUDDIN UNIVERSITY
MAKASSAR
2025

**BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
FACULTY OF ANIMAL SCIENCE
HASANUDDIN UNIVERSITY**

Vision

Vision of the study program :

Becoming an international standard in livestock education provider based on the Indonesian Maritime Continent

Vision Strategic

In accordance with the vision, mission, and objectives that have been set, the Animal Husbandry Study Program of the Faculty of Animal Science sets the following objectives to be achieved:

- a. Improving the quality of learning implementation that is in line with the needs of industry and society based on research and international standards;
- b. Creating networks and partnerships in the development of Animal Husbandry science and technology and its utilization in the implementation of learning;
- c. Producing graduates who have character, vision, creativity and innovation in the field of animal husbandry science and technology with an entrepreneurial perspective.

Mission

The mission carried out in the implementation of the Bachelor of Animal Husbandry Study Program, Faculty of Animal Husbandry, Hasanuddin University is

- 1) Organizing quality learning to produce independent and globally competitive Animal Husbandry scholars.
- 2) Developing animal husbandry science for the benefit of the nation.
- 3) Providing a conducive academic climate for implementing education with an entrepreneurial perspective.

Graduate Profiles

No	Profile	Description
1	Manager	Graduates who apply concepts and techniques in managing livestock farming and institutions related to livestock businesses such as financial institutions
2	Young Researcher	Graduates who able to apply scientific concepts and methods in solving problems in the development of the field of Animal Husbandry
3	Planners	Graduates who able to prepare potential and problem analysis, as well as formulate plans and strategies for the development of the livestock and related industries
4	Educators	Graduates who have the ability and skills to transfer science and technology to students in the field of animal husbandry
5	Entrepreneur	Graduates who able to apply business in the field of Animal Husbandry as their main business, or business development to support livestock business
6	Bureaucrat	Graduates who are able to organize government duties, especially in the affairs of livestock development

Learning Outcomes imposed on the Course

- ILO-1 - Internalize and actualize the values and norms of religion, nationality, and maritime affairs as independent people with character and devotion and have responsibility, social sensitivity, and struggle to realize the welfare of livestock in its utilization.
- ILO-2 - Mastering the concepts, theories and methods of effective, efficient and sustainable livestock development
- ILO-3 - Mastering the concept and resolution of animal husbandry problems based on data, science and scientific methods.

Course Learning Outcomes (CLO)

- CLO-1: Able to apply laying poultry production technology, including: aspects of housing, feed, health, and economic efficiency in starter, grower, and finisher phase rearing (ILO-2)
- CLO 2: Able to apply broiler poultry production technology, including: housing, feed, health, and economic efficiency aspects in starter and finisher phase rearing (ILO-2)
- CLO-3: Able to apply local poultry production technology (free-range chickens and ducks), including: housing, feeding, health, and economic efficiency aspects in the starter, grower, and finisher phases of rearing (ILO-2)
- CLO-4: Able to apply breeding technology, including: aspects of crossing and selection, housing, feed, health, and economic efficiency in the maintenance of starter, grower, and finisher phases (ILO-3)
- CLO-5: Able to apply hatchery technology, including: aspects of selection and handling of hatching eggs, hatchery management and handling of DOC, packing and transportation (ILO-1)

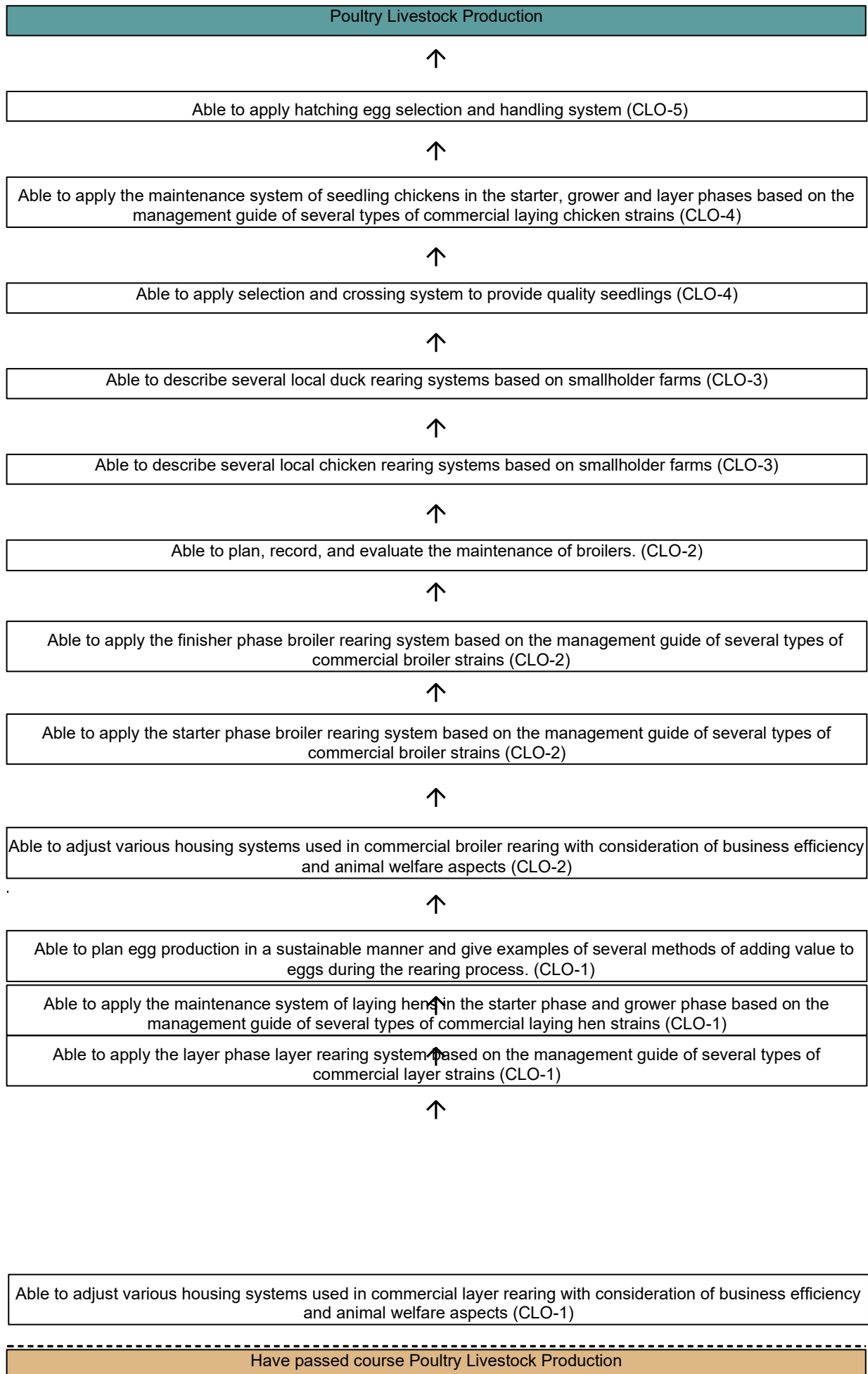
Sub-CLO

- Sub-CLO-1: Able to adjust various housing systems used in commercial layer rearing with consideration of business efficiency and animal welfare aspects (CLO 1)
- Sub-CLO-2: Able to apply the starter phase and grower phase layer rearing system based on the management guide of several types of commercial layer strains (CLO-1)
- Sub-CLO-3: Able to apply the layer phase layer rearing system based on the management guide of several types of commercial layer strains (CLO-1)
- Sub-CLO-4: Able to plan egg production in a sustainable manner and give examples of several methods of adding value to eggs during the rearing process. (CLO-1)
- Sub-CLO-5: Able to adjust various housing systems used in commercial broiler rearing with consideration of business efficiency and animal welfare aspects (CLO-2)
- Sub-CLO 6: Able to apply a starter phase broiler rearing system based on the management guide of several types of commercial broiler strains (CLO-2)
- Sub-CLO-7: Able to apply the finisher phase broiler rearing system based on the management guide of several types of commercial broiler strains (CLO-2)
- Sub-CLO-8: Able to plan, record, and evaluate the maintenance of broilers. (CLO-2)
- Sub-CLO-9: Able to describe several local chicken rearing systems based on smallholder farms (CLO-3)
- Sub-CLO-10: Able to describe several systems of raising local ducks based on smallholder farms (CLO-3)
- Sub-CLO-11: Able to apply selection and crossing system to provide quality seedlings (CLO-4)

Sub-CLO-12: Able to apply the system of raising seedling chickens in the starter, grower and layer phases based on the management guide of several types of commercial laying chicken strains (CLO-4)

Sub-CLO-13: Able to apply hatching egg selection and handling system (CLO-5)

Learning Analysis





**HASANUDDIN UNIVERSITY
FACULTY OF ANIMAL SCIENCE
BACHELOR PROGRAMME IN ANIMAL HUSBANDRY
SEMESTER COURSE PLAN**

Course	Code	Course Group	Credit Points	Semester	Date of Preparation
Poultry Livestock Production	23101130403	Production	3	5	August 9, 2023
Authority	Developer Lecturer		Course Coordinator		Head of study Program
	Dr. Ir. Wempie Pakiding, M.Sc., Muhammad Rachman Hakim, S.Pt., M.P., Ir. DaryaTatap Mukao, S.Pt., M.P., IPM		Dr. Ir. Wempie Pakiding, M.Sc.		Dr. Agr. Ir. Renny FaTatap Mukayah Utamy, S. Pt., M. Agr., IPM
Course Learning Outcomes	ILOs that are imposed on the course				
	ILO-1	Internalizing and actualizing religious, national, and maritime values and norms as independent people with character and devotion and have responsibility, social sensitivity, and struggle to realize the welfare of livestock in their use.			
	ILO-2	Mastering the concepts, theories and methods of effective, efficient and sustainable livestock development			
	ILO-3	Mastering the concepts and solving animal husbandry problems based on data, science and scientific methods.			
	ILO⇒ Course Learning Outcomes (CLO)				
	Upon completion of this course, it is expected that:				
	ILO-2	CLO-1: Able to apply layer poultry production technology, including: aspects of housing, feed, health, and economic efficiency in starter, grower, and finisher phase rearing.			
		CLO-2 : Able to apply broiler poultry production technology, including: aspects of housing, feed, health, and economic efficiency in starter and finisher phase rearing.			
CLO-3 : Able to apply local poultry production technology (free-range chickens and ducks), including: aspects of housing, feed, health, and economic efficiency in the starter, grower, and finisher phases of rearing.					
ILO-3	CLO-4: Able to apply breeding technology, including: aspects of crossing and selection, housing, feed, health, and economic efficiency in the starter, grower, and finisher phases of maintenance.				

SLO-2	CLO-1	SUB-CLO-1	Interactive Lecture	6	5	0	0	11		
SLO-2	CLO-1	SUB-CLO-2		0	5	6	0	11		
SLO-2	CLO-1	SUB-CLO-3		0	5	3	0	8		
SLO-2	CLO-1	SUB-CLO-4		3	0	0	5	8		
SLO-2	CLO-2	SUB-CLO-5		2	4	2	0	8		
SLO-2	CLO-2	SUB-CLO-6		3		0	0	8		
SLO-2	CLO-2	SUB-CLO-7		3	5	0	0	8		
SLO-2	CLO-2	SUB-CLO-8		3	5	0	0	8		
SLO-2	CLO-3	SUB-CLO-9		4	6	0	0	10		
SLO-2	CLO-3	SUB-CLO-10		2	3	0	0	5		
SLO-3	CLO-4	SUB-CLO-11		2	3	0	0	5		
SLO-3	CLO-4	SUB-CLO-12		2	3	0	0	5		
SLO-1	CLO-5	SUB-CLO-13		2	3	0	0	5		
				32	52	11	5	100		
Course Description	This course will lead students to have the ability to master the technical aspects of raising several poultry commodities including housing systems, feeding management, lighting, disease prevention, breeding and hatchery management.									
Learning Materials / Subject Matter	<ol style="list-style-type: none"> 1. Lecture contract 2. Maintenance management of laying hens in the starter phase and grower phase 3. Layer phase chicken rearing management 4. Planning and evaluation of layer breeding business 5. Management of starter and finisher phase broiler chicken rearing 6. Management of broiler and layer chicken rearing 7. Broiler and layer duck rearing management 8. Nursery management 9. Egg hatching management. 									

Reference	Key Reference						
	<ol style="list-style-type: none"> Bell, D. D., Weaver, W. D., & North, M. O. (Eds.). (2002). Commercial chicken meat and egg production. Springer Science & Business Media. Etches, R. J. (1996). Reproduction in poultry. CAB international. Sturkie, P. D. (Ed.). (2012). Avian physiology. Springer Science & Business Media. Hester, P. (Ed.). (2016). Egg innovations and strategies for improvements. Academic press. Van Immerseel, F., Nys, Y., & Bain, M. (Eds.). (2011). Improving the safety and quality of eggs and egg products: egg safety and nutritional quality. Elsevier. Petracci, M., & Berri, C. (Eds.). (2017). Poultry quality evaluation: quality attributes and consumer values. Woodhead Publishing. Ricke, S., & Gast, R. K. (Eds.). (2016). Producing Safe Eggs: Microbial Ecology of Salmonella. Academic Press. Dolins, F. L., & Dolins, F. L. (Eds.). (1999). Attitudes to animals: Views in animal welfare. Cambridge University Press. Mench, J. (2017). Advances in poultry welfare. Woodhead Publishing. 						
	Additional Reference						
	<ol style="list-style-type: none"> Management guide for some commercial layer and broiler strains Related journal articles Learning video 						
Teaching Team	Dr. Ir. Wempie Pakiding, M.Sc., Muhammad Rachman Hakim, S.Pt., M.P., Ir. DaryaTatap Mukao, S.Pt., M.P., IPM						
Course requirements	Livestock Physiology, Poultry Science						
Week	Sub CLO (End ability of each learning stage)	Assesment		Forms and Methods of Learning [time estimate]		Content	Weight of Assesment (%)
		Indicator	Technique & Criteria	Offline	Online		
1	2	3	4	5	6	7	8
1	Able to adjust various housing systems used in commercial layer farming with consideration of business efficiency and animal welfare aspects (CLO-1)	Formative: - Summative: Description of the learning contract includes: <ol style="list-style-type: none"> Attendance form of learning media forms of tests, quizzes, and 	Kriteria Formative: Criteria Summative: Group Presentation (4) assessed with rubric I011240001	Studying: Small group discussion, cooperative learning, collaborative learning 1 x 2 x 50			1

		assignments 4. assessment criteria	Assessment Technique: None				
2	Able to adjust various housing systems used in commercial layer farming with consideration of business efficiency and animal welfare aspects (CLO-1)	<p>Formative: Interactive Lecture</p> <p>Summative: Description of housing system includes:</p> <ul style="list-style-type: none"> • 1. Types of cages (<i>rearing house and layer house</i>) • 2. <i>Conventional cage system</i> (standard); materials, layout, maintenance, advantages and disadvantages • 3. Alternative system (<i>furnished/enriched cage, aviary system, deep litter, free range</i>) 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative: Interactive Lecture (2) Problem Base Learning (4) assessed with rubric I011240003 Group Presentation (3) assessed with rubric I011240001</p> <p>Assessment Technique: None</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p>		<ul style="list-style-type: none"> - Housing system - Management guide of several strains of commercial laying hens 	8
3	Able to apply the rearing system of laying hens in the starter phase and grower phase based on the management guide of several types of commercial laying hen strains (CLO-1)	<p>Formative: -</p> <p>Summative:</p> <ul style="list-style-type: none"> 1. Cage preparation before chickens arrive 2. <i>Brooding</i> management (<i>density</i>, temperature, feed and drinking water layout, heater, curtain and litter) 3. Feeding management (feeding frequency, feed form, feed consumption) 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative: Interactive Lecture (2) Practicum/Field Practice (10) assessed with rubric I011240002</p> <p>Assessment Technique: None</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p> <p>Practicum, Studio Practice, Workshop Practice, Field Practice: Case Study, Collaborative Learning</p> <p>1 x 1 x 170</p>		<ul style="list-style-type: none"> - Starter and grower phase layer rearing - - Management guide for some commercial layer strains (Hy-line, ISA Brown, Hysex Brown, Lohmann Brown, Novogen Brown) 	8

		<p>standard, feed restriction, starter-grower feed change).</p> <ol style="list-style-type: none"> 4. Lighting management 5. <i>Uniformity/grading</i> (body weight uniformity), recording, growth evaluation 6. Disease prevention 7. Transfer process (moving cage) 					
4	Able to apply the layer phase layer rearing system based on the management guide of several types of commercial layer strains (CLO-1)	<p>Formative:</p> <p>-</p> <p>Summative: Technical aspects of rearing include:</p> <ol style="list-style-type: none"> 1. Post-transfer <i>grading</i> 2. Timing of first egg laying through consideration of feed, weight, lighting and secondary sex characteristics 3. Feed aspect: Feed alternation management (grower-prelayer-layer), <i>restricted feeding</i> during the layer period 4. <i>Lighting</i> management in the layer phase (<i>photostimulation</i>, intensity, duration, color/wavelength) 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative: Interactive Lecture (2) Practicum/Field Practice (10), assessed with rubric IO11240002</p> <p>Assessment Technique: None</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p> <p>Practicum, Studio Practice, Workshop Practice, Field Practice: Small group discussion, collaborative learning, project-based learning</p> <p>1 x 2 x 50</p>		<ul style="list-style-type: none"> - layer rearing layer phase - Management guide for some commercial layer strains (Hy-line, ISA Brown, Hysex Brown, Lohmann Brown, Novogen Brown) 	8
5	Able to plan egg production in a sustainable manner and give examples of several methods of adding value to eggs during the rearing process. (CLO-1)	<p>Formative:</p> <p>-</p> <p>Summative:</p>	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative:</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p>		<ul style="list-style-type: none"> - <i>pre-oviposition added value</i> 	8

		<ol style="list-style-type: none"> 1. Sustainable egg production management (cage layout, rearing period, recording system) based on the standard production value of several commercial layer breeds 2. Innovations in the rearing of laying hens to produce eggs that are good for consumer health (high content of Iodine, Selenium, Omega three, Carotenoids and Vitamin E or others), and include: (1) the importance of the substance to be added, (2) the method of addition during rearing, (3) 	<p>Interactive Lecture (2)</p> <p>Practicum/Field Practice (8) assessed with rubric I011240002</p> <p>Assessment Technique:</p> <p>None</p>	<p>Practicum, Studio Practice, Workshop Practice, Field Practice:</p> <p>Case Study, Collaborative Learning, Project-based Learning</p> <p>1 x 1 x 170</p>			
6	Able to adjust various housing systems used in commercial broiler rearing with consideration of business efficiency and animal welfare aspects (CLO-2)	<p>Formative:</p> <p>-</p> <p>Summative:</p> <ol style="list-style-type: none"> 1. Present the problem clearly 2. Mention the approach chosen as a solution to the problem 3. Impact on performance achievement 4. Presents recommendations 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative:</p> <p>Problem Base Learning (8) assessed with rubric I011240003</p> <p>Assessment Technique:</p> <p>None</p>	<p>Studying:</p> <p>Small group discussion, cooperative learning, collaborative learning</p> <p>2 x 2 x 50</p>		<ul style="list-style-type: none"> - Broilers' Housing System - <i>Management guide</i> some commercial broiler strains (Cobb 500, Ross 308, Indian River, Hubbard, arbor Acres) 	8
7	Able to apply starter phase broiler rearing system based on management guide of several types of	<p>Formative:</p> <p>-</p> <p>Summative:</p>	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p>	<p>Studying:</p> <p>Small group discussion, cooperative learning, collaborative learning</p>		<ul style="list-style-type: none"> - Broiler management_starter - Management guide for some commercial broiler 	8

	commercial broiler strains (CLO-2)	<p>Technical aspects of broiler rearing include:</p> <ol style="list-style-type: none"> 1. Cage preparation before chickens arrive 2. <i>Brooding</i> management (<i>density</i>, temperature, feed and drinking water layout, heaters, curtains, lighting and litter) 3. Feeding management (feed quality, feeding frequency, feed form, feed consumption standard, feed restriction, starter-finisher feed alternation). 4. Lighting arrangement 5. <i>Grading</i> / uniformity setting, recording, growth evaluation 6. Disease prevention 	<p>Summative: Practicum/Field Practice (4)</p> <p>Assessment Technique: None</p>	<p>1 x 2 x 50</p> <p>Practicum, Studio Practice, Workshop Practice, Field Practice: Case Study, Project-based Learning</p> <p>1 x 1 x 170</p>		strains (Cobb 500, Ross 308, Indian River, Hubbard, arbor Acres)	
8	Able to apply the finisher phase broiler rearing system based on the management guide of several types of commercial broiler strains (CLO-2)	<p>Formative: -</p> <p>Summative: Technical aspects of broiler rearing include:</p> <ol style="list-style-type: none"> 1. Grading/Culling 2. <i>Density</i>, temperature, height of feed and drinking water, lighting and litter management) 3. Feeding management (feed quality, feeding frequency, feed form, feed consumption standard, feed restriction). 4. Lighting management 5. Recording, growth evaluation 6. Disease prevention 	<p>Kriteria Formative: Kriteria Summative: Practicum/Field Practice (10) assessed with rubric I011240002</p> <p>Assessment Technique: None</p>	<p>Studying: Small group discussion, collaborative learning</p> <p>1 x 2 x 50</p>		<i>Management guide</i> some commercial broiler strains (Cobb 500, Ross 308, Indian River, Hubbard, arbor Acres)	8

9	Able to plan, record, and evaluate the maintenance of broilers. (CLO-2)	<p>Formative:</p> <p>-</p> <p>Summative: Showing examples:</p> <ol style="list-style-type: none"> 1. Sustainable broiler <ul style="list-style-type: none"> • production plan (cage layout, rearing period) based on standard production values of several commercial broiler breeds important data in the recording system in broiler rearing 2. evaluation results of broiler rearing based on rearing system (independent vs partnership), cage type (Closed house vs open house), between periods in one year, between types of chicken strains Additional descriptions related to harvest management (catching, weighing, and transportation processes) with consideration of <i>animal welfare</i> aspects. 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative:</p> <p>Case Study (10) assessed with rubric I011240003</p> <p>Group Presentation (2) assessed by rubric I011240001</p> <p>Assessment Technique:</p> <p>None</p>	<p>Studying:</p> <p>Case Study, Collaborative Learning</p> <p>1 x 2 x 50</p>	<p><i>Evaluation of broiler rearing</i></p> <p><i>Sample recording</i></p>	8
10-11	Able to describe several local chicken rearing systems based on smallholder farms (CLO-3)	<p>Formative:</p> <p>-</p> <p>Summative: Description of local chicken rearing systems include:</p>	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative:</p> <p>Problem Base Learning (8) assessed</p>	<p>Studying:</p> <p>Small Group Discussion, Collaborative Learning</p> <p>2 x 2 x 50</p> <p>Practicum, Studio</p>	local chicken rearing system	10

		<ol style="list-style-type: none"> Housing system Husbandry phases and objectives Feed management Disease prevention Seed supply Yield management (meat and eggs) 	<p>with rubric I011240003</p> <p>Assessment Technique:</p> <p>None</p>	<p>Practice, Workshop Practice, Field Practice:</p> <p>Collaborative Learning, Project-based Learning, Problem-based Learning</p> <p>1 x 1 x 170</p>			
12	Able to describe several local duck rearing systems based on smallholder farms (CLO-3)	<p>Formative:</p> <p>-</p> <p>Summative:</p> <p>Description of duck rearing system includes:</p> <ol style="list-style-type: none"> Housing system Rearing phases and objectives Feed management Disease prevention Seed supply Yield management (meat and eggs) 	<p>Kriteria</p> <p>Formative:</p> <p>Kriteria</p> <p>Summative:</p> <p>Problem Base Learning (4) assessed with rubric I011240003</p> <p>Group Presentation (7) assessed with rubric I011240001</p> <p>Assessment Technique:</p> <p>None</p>	<p>Studying:</p> <p>Small group discussion, collaborative learning</p> <p>1 x 2 x 50</p>			5
13	Able to apply selection and crossing system to provide quality seeds (CLO-4)	<p>Formative:</p> <p>-</p> <p>Summative:</p> <p>Description of efforts to improve feed efficiency in tropical farming including:</p> <ol style="list-style-type: none"> AdjusTatap Mukaent of feeding management 	<p>Kriteria</p> <p>Formative:</p> <p>Criteria</p> <p>Summative:</p> <p>Group Presentation (4) assessed with rubric I011240001</p>	<p>Studying:</p> <p>Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p>			5

		<ul style="list-style-type: none"> • (frequency of feeding, feed quality, feed form, feed additives) Role of vitamins, electrolytes, minerals, prebiotics, probiotics, phytobiotics in heat stressed poultry. <p>2. Indicators: (1) the importance of the treatment given, (2) the type of substance or type of treatment given, (3) the impact on production performance aspects, (4) the positive benefits of these activities in addition to increasing feed efficiency.</p>	<p>Assessment Technique: None</p>				
14	Able to apply the system of raising seedling chickens in the starter, grower and layer phases based on the management guide of several types of commercial laying chicken strains (CLO-4)	<p>Formative: -</p> <p>Summative: Showing description;</p> <ol style="list-style-type: none"> 1. Biological activity of local materials 2. Management or utilization methods in poultry rearing 3. Impact on poultry performance 4. Impact on business efficiency 	<p>Kriteria Formative:</p> <p>Kriteria Summative: Interactive Lecture (2) Problem Base Learning (4) assessed with rubric I011240003 Group Presentation (3) assessed with rubric I011240001 Assessment Technique: None</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p> <p>1 x 2 x 50</p>			5
15-16	Able to apply hatching egg selection and handling system. (CLO-5)	<p>Formative: -</p>	<p>Kriteria Formative:</p>	<p>Studying: Small group discussion, cooperative learning, collaborative learning</p>			10

		<p>Summative:</p> <ol style="list-style-type: none"> 1. Use current data (standard performance data, price or selling price, or case examples) 2. Display the calculation method clearly 3. Explains the result of the calculation 	<p>Kriteria</p> <p>Sumative:</p> <p>Interactive Lecture (2) Practicum/Field Practice (10) assessed with rubric I011240002</p> <p>Assessment Technique:</p> <p>None</p>	<p>2 x 2 x 50</p> <p>Practicum, Studio Practice, Workshop Practice, Field Practice:</p> <p>Case Study, Collaborative Learning</p> <p>1 x 1 x 170</p>			
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Matrix ILO, CLO, and Assessment Method

ILO / CLO	CLO-1	CLO-2	CLO-3	CLO-4	CLO-15
ILO-1					Quiz (Weight 2%) Practicum/Field Practice (Weight 3%)
ILO-2	Quiz (Weight 6%) Practicum/Field Practice (Weight 5%) Case Study (Weight 6%) Practicum/Field Practice (Weight 5%) Case Study (Weight 3%) Practicum/Field Practice (Weight 5%) Quiz (Weight 3%) Problem Base Learning (Weight 5%)	Quiz (Weight 2%) Practicum/Field Practice (Weight 4%) Case Study (Weight 2%) Quiz (Weight 3%) Practicum/Field Practice (Weight 5%) Quiz (Weight 3%) Practicum/Field Practice (Weight 5%) Quiz (Weight 3%) Practicum/Field Practice (Weight 5%)	Quiz (Weight 4%) Practicum/Field Practice (Weight 6%) Quiz (Weight 2%) Practicum/Field Practice (Weight 3%)		
ILO-3				Quiz (Weight 2%) Practicum/Field Practice (Weight 3%) Quiz (Weight 2%) Practicum/Field Practice (Weight 3%)	

Evaluation Type and Assessment Weight

Type	Assessment Weight
Quiz	32
Practicum/Field Practice	52
Case Study	11
Problem Base Learning	5
Total	100

Assessment and Evaluation of Student Achievement of CLO

ILOs imposed on the Course	CLO	SUB CLO	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Quiz	Practicum/Field Practice	Case Study			
SLO-2	CLO-1	SUB-CLO-1	Interactive Lecture	6	5	0	0	11	
SLO-2	CLO-1	SUB-CLO-2		0	5	6	0	11	
SLO-2	CLO-1	SUB-CLO-3		0	5	3	0	8	
SLO-2	CLO-1	SUB-CLO-4		3	0	0	5	8	
SLO-2	CLO-2	SUB-CLO-5		2	4	2	0	8	
SLO-2	CLO-2	SUB-CLO-6		3	5	0	0	8	
SLO-2	CLO-2	SUB-CLO-7		3	5	0	0	8	
SLO-2	CLO-2	SUB-CLO-8		3	5	0	0	8	
SLO-2	CLO-3	SUB-CLO-9		4	6	0	0	10	
SLO-2	CLO-3	SUB-CLO-10		2	3	0	0	5	
SLO-3	CLO-4	SUB-CLO-11		2	3	0	0	5	
SLO-3	CLO-4	SUB-CLO-12		2	3	0	0	5	
SLO-1	CLO-5	SUB-CLO-13		2	3	0	0	5	
				32	52	11	5	100	



**HASANUDDIN UNIVERSITY
FACULTY OF ANIMAL SCIENCE
BACHELOR PROGRAMME IN ANIMAL HUSBANDRY**

STUDENT STRUCTURED ASSIGNMENT PLAN

Course	Poultry Livestock Production				
Code	23I01130403	Credit Points	3	Semester	5
Developer Lecturer	Dr. Ir. Wempie Pakiding, M.Sc				
Task Form	Task Time				
Documents/Magazines	2 weeks				
Task Title					
Apply the rearing system of laying hens in the starter phase and grower phase based on the management guide of several types of commercial laying hen strains.					
Course Learning Outcomes					
SUB-CLO-3: Able to apply the layer rearing system based on the management guide of several types of commercial layer strains.					
Task Description					
<p>Student assignment is a group assignment to make a Paper Assignment "Management guide for several strains of commercial laying hens" by choosing 1 of the sub-topics: Hy-line, ISA Brown, Hysex Brown, Lohmann Brown, Novogen Brown. The preparation of the paper follows the following procedure:</p> <ol style="list-style-type: none"> 1) Each group chooses 1 of the sub-topics: Cryopreservation Media, Cryoprotectants, Cryopreservation Methods, and Difficulties in Cryopreservation for 1 group. 2) Discuss among the group members to identify the process stages for each of the selected sub-topics. Information related to the selected sub-topic can be obtained from textbooks and journals. 3) Create a paper with the following systematics: <ol style="list-style-type: none"> I. Introduction II. Discussion III. Conclusion IV. Literature 4) Group presentation 					
Assignment Method					
1. Conducted in groups using the Small Group Discussion (SGD) learning method.					
Form and Format of Output					
a. Objective: Management guidelines for several strains of commercial laying hens b. Form of Output: Paper					
Indicators, Criteria and Assessment Weight					
<p>Indicator:</p> <ol style="list-style-type: none"> 1. Systematics: 10% 2. Accuracy of analysis: 25% 3. Depth of material: 30% 4. Novelty and reputation of library materials: 10% 5. Team cohesiveness: 10% 6. Mastery of the material: 15% 					
Implementation Schedule					
Two weeks					
Other					

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Reference List

1. Bell, D. D., Weaver, W. D., & North, M. O. (Eds.). (2002). Commercial chicken meat and egg production. Springer Science & Business Media.
2. Etches, R. J. (1996). Reproduction in poultry. CAB international.
3. Sturkie, P. D. (Ed.). (2012). Avian physiology. Springer Science & Business Media.
4. Hester, P. (Ed.). (2016). Egg innovations and strategies for improvements. Academic press.
5. Van Immerseel, F., Nys, Y., & Bain, M. (Eds.). (2011). Improving the safety and quality of eggs and egg products: egg safety and nutritional quality. Elsevier.
6. Petracci, M., & Berri, C. (Eds.). (2017). Poultry quality evaluation: quality attributes and consumer values. Woodhead Publishing.
7. Ricke, S., & Gast, R. K. (Eds.). (2016). Producing Safe Eggs: Microbial Ecology of Salmonella. Academic Press.
8. Dolins, F. L., & Dolins, F. L. (Eds.). (1999). Attitudes to animals: Views in animal welfare. Cambridge University Press.
9. Mench, J. (2017). Advances in poultry welfare. Woodhead Publishing.

DEFINITION OF 1 CREDIT IN THE FORM OF LEARNING				Time
A	Lecture, Reception, Tutorial			
	Face to Face	Structured Assignment	Independent Learning	
	50 minutes/week/semester	60 minutes/week/semester	60 minutes/week/semester	2,83
B	Seminars or other similar forms of learning			
	Face to face	Self-study		
	100 minutes/week/semester	70 minutes/week/semester		2,83
C	Practicum, studio practice, workshop practice, field practice, research, community service, and/or other equivalent forms of learning			
	170 minutes/week/semester			2,83

No	Metode Pembelajaran Mahasiswa	Kode
1	Small Group Discussion	SGD
2	Role-Play & Simulation	RPS
3	Discovery Learning	DL
4	Self-Directed Learning	SDL
5	Cooperative Learning	CoL
6	Collaborative Learning	CbL
7	Contextual Learning	CtL
8	Project Based Learning	PjBL
9	Problem Based Learning & Inquiry	PBL
10	Or other learning methods, which can effectively facilitate the fulfillment of graduate learning outcomes.	

Appendix Rubric I011240004| QUESTIONS

<https://drive.google.com/file/d/1-G5bqS9MCxOIPd-7sglUD45vUrF8KZhZ/view?usp=sharing>