


## COURSE LEARNING PLAN

	UNIVERSITY OF BRAWIJAYA FACULTY OF ANIMAL SCIENCE DEPARTMENT OF ANIMAL SCIENCE UNDERGRADUATE STUDY OF ANIMAL SCIENCE LESSON PLAN – POULTRY PRODUCTION SCIENCE			
Course	Code	Weight (credits)	Semester	Compilation Date
Poultry Production	PEP 4004	3 (2-1) credits	3	July 25, 2020
Aunthorization	Supervising Lecturer		Head of Undergraduate Study Program	
	Dr. Ir. Muharlien, MP.		Dr. Herly Evanuarini, S.Pt. MP.	
				Vice Dean 1
Learning Outcomes (LO)	LO			
	1. LO 3 Demonstrate a friendly attitude, cares for the welfare of the animal and its halalness. 2. LO 4 Able to develop comprehensive insight and mindset according to the science and field of the animal industry. 3. LO 6 Able to apply Biological Science, Physiology, Nutritional Science, Breeding Science, and Livestock Farming Management to comprehend the concept and implement it in the field of animal science. 4. LO 11 Able to show performance, both independently and in teamwork (inter-and multi-disciplinary), identify and analyze to solve problems in a quality and measurable way			
	CLO			
	1. Students are able to explain the history of development, livestock policies, breeds, and strains of poultry. 2. Students are able to explain and identify the morphology, anatomy, and physiology of poultry. 3. Students are able to explain and apply hatchery management or practices. 4. Students are able to explain and identify the open house and closed house systems. 5. Students are able to explain basic knowledge of feed, diseases, and prevention of poultry disease.			
Brief Course Description	This course discusses the history of development, poultry policies, breeds, and strains of poultry in the world and Indonesia, morphology, anatomy, and physiology of poultry, hatcheries, open house and closed house systems, and basic knowledge of feed, diseases, and prevention of poultry disease.			
Learning Contents	1. Introduction 2. History and Development of Poultry Farming 3. Poultry Policies 4. Poultry Breeds and Strains in Indonesia and the World 5. Poultry Morphology, Anatomy, and Physiology 1 6. Poultry Morphology, Anatomy, and Physiology 2			

	7. Hatching 1 8. Hatching 2 9. Open Poultry House System 10. Closed Poultry House System 11. Basic Poultry Feed 12. Basic Poultry Diseases 13. Basic Prevention of Poultry Diseases 14. Selection and Culling					
References	1. Muharliien, dkk, 2018. Ilmu Produksi Ternak Unggas. Brawijaya Press 2. PERATURAN MENTERI PERTANIAN REPUBLIK INDONESIA NOMOR 32/PERMENTAN/PK.230/9/2017 tentang Penyediaan, Peredaran, dan Pengawasan Ayam Ras dan Telur Konsumsi 3. Cobb, 2008. Hatchery Management Guide. Cobb-vantress.com 4. Muharliien dan Achmanu, 2011. Ilmu Unggas. Brawijaya Press 5. Heni S. 2010. Biologi Unggas. Brawijaya Press 6. Hy-Line Internasional, 2019. Hy-Line Red Book: Management and Disease Control. <a href="http://www.hyline.com">www.hyline.com</a> . 7. HANDBOOK OF POULTRY SCIENCE AND TECHNOLOGY, A JOHN WILEY & SONS, INC., PUBLICATION 8. USSEC, 2017. Biosecurity Guide for Commercial Poultry Production in the Middle East and North Africa. U.S. Soybean Export Council. <a href="http://www.ussec.org">www.ussec.org</a> .					
Learning Media	Software		Hardware			
	Microsoft Office, pdf, Education Apps for Teaching and Learning (Video, Google Classroom, Zoom, Google-form, e-book)		Incubator, Closed Poultry House Miniature, Computer, Printer			
Teaching Team	1. Dr. Ir. Muharliien, MP. 2. Dr. Ir. Edhy Sudjarwo, MS. 3. Heni Setyo Prayogi, S.Pt.,M.A.Sc. 4. Adelina Ari Hamiyanti, S.Pt.,MP. 5. Dr. Dyah Lestari Yulianti, S.Pt. MP.					
Prerequisite course	Introduction to Animal Science					
Week (s)	Sub-Course Learning Outcomes (SCLO)	Indicators	Learning Materials/ Topics	Learning Methods	Criteria & Form of Assessment	Weighted Scores (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)

1	CLO 1		<b>Introduction/Semester Lesson Plan (RPS)</b>			
2	CLO 1	Students are able to explain the history and the development of poultry farming in the world and Indonesia	<b>History and the development of poultry farming in the world and Indonesia</b>	Lecture, Discussion, Test	Students' active participation, Test/exam	
3	CLO 1	Students are able to explain livestock policies/regulations (Laws/Ministerial Regulation/Directorate General Regulations)	<b>Poultry Farming Policies/Regulations</b> <ul style="list-style-type: none"> <li>– Poultry Production</li> <li>– Poultry Raising System (Independent/Partnership)</li> <li>– Supply and Market Chain</li> <li>– Livestock and Raw Material Industry</li> </ul>		Test/exam	
4	CLO 1	Students are able to explain poultry strains and breeds in the world and Indonesia	<b>Poultry Strains and Breeds in Indonesia and the World</b>	Lecture, Discussion	Test/exam	
5	CLO 2	Students are able to identify and explain the morphology and anatomy of poultry including comb, feather, skeleton, skin	<b>Poultry Morphology, Anatomy, and Physiology</b> <ul style="list-style-type: none"> <li>– Morphology and Anatomy</li> </ul>	Lecture, Discussion, Practicum	Test/exam, observation of practical performance in the laboratory.	
6	CLO 2	Students are able to identify and explain the physiology of poultry, including vision, lighting, moulting, broodiness, and thermoregulator	<b>Poultry Morphology, Anatomy, and Physiology</b> <b>Poultry Physiology</b> <ul style="list-style-type: none"> <li>– Vision</li> <li>– Lighting</li> <li>– <i>Moulting</i></li> <li>– Broodiness</li> <li>– Thermoregulator</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	

7	CLO 3	Students are able to explain and carry out hatchery practices including natural and artificial incubation or hatching, factors in hatching, and incubators	<b>Hatching</b> <ul style="list-style-type: none"> <li>– Natural and Artificial Hatching</li> <li>– Factors in Hatching</li> <li>– Introduction of Incubators</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	
8	CLO 3	Students are able to explain the basics of embryonic development and the basics of hatching in industry	<b>Hatching</b> <ul style="list-style-type: none"> <li>– Basics of Embryonic Development</li> <li>– Basics of Hatching in Industry</li> </ul>	Lecture, Discussion	Test/exam	10%
9	MIDTERM EXAM					30%
10	CLO 4	Students are able to identify and explain the open house	<b>Open House</b> <ul style="list-style-type: none"> <li>– Construction</li> <li>– Equipment and Facilities</li> <li>– Density</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	
11	CLO 4	Students are able to identify and explain closed-house	<b>Closed House</b> <ul style="list-style-type: none"> <li>– Construction</li> <li>– Equipment and Facilities</li> <li>– Density</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	
12	CLO 5	Students are able to explain the basics of poultry feed	<b>Basics of Poultry Feed</b> Feeding in Production Phase (Broilers and Layers)	Lecture, discussion, practicum, demonstration	Test/exam, observation of practical performance in the laboratory	
13	CP-MK 5	Students are able to explain the basics of poultry disease	<b>Basic Poultry Disease</b> <ul style="list-style-type: none"> <li>– Types of Poultry Diseases (based on disease agents and their spread)</li> <li>– Signs of Disease</li> </ul>	Lecture, Discussion.	Test/exam	

14	CLO 5	Students are able to explain the basics of preventing poultry disease	<b>Basic Poultry Disease Prevention</b> <ul style="list-style-type: none"> <li>– Sanitation</li> <li>– Biosafety</li> <li>– Vaccination</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	
15	CLO 5	Students are able to explain the selection and culling procedures for broilers and layers	<b>Selection and Culling</b> <ul style="list-style-type: none"> <li>– Broilers</li> <li>– Layers</li> </ul>	Lecture, discussion, practicum, demonstration	Test/exam	
16	FINAL EXAM					30%
	TOTAL					100%