


## COURSE LEARNING PLAN

	UNIVERSITY OF BRAWIJAYA FACULTY OF ANIMAL SCIENCE DEPARTMENT OF ANIMAL SCIENCE UNDERGRADUATE STUDY PROGRAM OF ANIMAL SCIENCE LEARNING PLAN VARIOUS ANIMAL TECHNOLOGY			
Course	Code	Weight (credits)	Semester	Compilation Date
Miscellaneous Animal Technology	PEP60012	3 (2-1)	Even	January 15, 2020
Authorization	Supervising Lecturer		Head of Undergraduate Study Program	Vice Dean 1
	Prof. Dr. Ir. Moch. Junus, MS		Dr. Herly Evanuarini, SPt., MP.	Dr. Ir. M. Halim Natsir, SPt.MP.IPM.ASEAN Eng.
Learning Outcomes (LO)	LO			
	1. LO 4. Able to develop comprehensive insight and mindset according to the science and field of the animal industry. 2. LO 5. Able to examine the implications of the development or implementation of science and technology that consider and apply humanities values in accordance with their expertise based on scientific principles, procedures, and ethics to produce excellent solutions and ideas. 3. LO 13. Able to apply animal technology that is oriented towards improving production, efficiency, quality, and sustainability based on mastery of animal science including breeding, feed, processing of products, marketing management and organizing a sustainable animal production system, and applying entrepreneurial concepts.			
	CLO			
	1. Able to determine technology in various animal production systems 2. Able to apply technology in various animal production systems 3. Able to evaluate the role of technology in various animal production systems			
Brief Course Description	The course discusses technology in the development of various animal commodities including design, application, and evaluation which are given in the form of offline learning, discussions, practicum, assignments, or presentations.			
Topics	1. Development technology of animal production system of rabbit - Animal breeds			

	<ul style="list-style-type: none"> <li>- Hutch</li> <li>- Feed</li> <li>- Reproduction</li> <li>- Sanitation/disease prevention</li> </ul> <p>2. Development technology of animal production system of honey bee</p> <ul style="list-style-type: none"> <li>- Animal breeds</li> <li>- Colony box</li> <li>- Feed</li> <li>- Reproduction</li> <li>- Sanitation/disease prevention</li> </ul> <p>3. Development technology of animal production system of silkworm</p> <ul style="list-style-type: none"> <li>- Animal breeds</li> <li>- Basins and equipment</li> <li>- Feed</li> <li>- Reproduction</li> <li>- Sanitation/disease prevention</li> </ul>	
References	<p>1. USAID, 2014. A Complete Handbook on Backyard and Commercial Rabbit Production. The Keystone Policy Centre on Behalf of The Honey Bee Health Coalition.</p> <p>2. Canadian Honey Council, 2019. Best Management Practices for Hive Health “A Guide for Beekeeper”. The Keystone Policy Centre on Behalf of The Honey Bee Health Coalition.</p> <p>3. Imtiyaz Rasool Parrey, Yasir Arafat Lone, 2018. Impact of temperature on crop and higher silk production: silkworm (<i>Bombyx mori</i> L.). MOJ Food Processing &amp; Technology, Volume 6 Issue 2.</p> <p>4. Sekarappa BM, Gururaj CS. Management of silkworm rearing during summer. Indian Silk. 2008; 27(12):16.</p>	
Learning Media	Software	Hardware
	PPT, video, Google classroom, WhatsApp	LCD, laptop, practical equipment
Team Teaching	<p>1. Prof. Dr. Ir. Moch. Junus, MS</p> <p>2. Dr. Ir. Sri Minarti, MP, IPM, Asean Eng.</p>	

		3. Ir. Nur Cholis, M.Si, IPM, Asean Eng				
Prerequisite Course		Various Animal Production Science (PEP 4005)				
Week	Sub-CLO	Indicator	Learning Materials/ Topics	Learning Methods	Criteria & Form of Assessment	Scoring Weight (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Understand the course materials and methods used	Able to explain the whole set of materials and the lesson plan	Introduction, Lesson Plan (RPS) Current technological developments in the various animal field	Offline learning and discussion	Presence and activeness, and mastery of the material	
2	Able to determine, apply and evaluate technology/ engineering of rabbit breeds	Able to explain the technology to obtain superior rabbit breeds and evaluate the results	Technology in rabbit breeds	Offline learning and discussion	Presence and activeness, and mastery of the material	
3	Able to determine, apply, and evaluate hutch and sanitation technology/ engineering for rabbits	Able to explain hutch technology for rabbits and evaluate the results	Rabbit hutch and sanitation technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
4	Able to determine, apply and evaluate feed technology/ engineering for rabbits	Able to explain feed development technology for rabbits and evaluate the results	Feed technology for rabbits	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
5	Able to determine, apply, and evaluate reproductive technology/ engineering for rabbits	Able to explain reproductive development technology for rabbits and evaluate the results	Reproductive technology for rabbits	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	

6	Able to determine, apply, and evaluate technology/ engineering of honey bee breeds	Able to explain technology to obtain superior honey bee breeds and evaluate the results	Technology in honey bee breeds	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
7	Able to determine, apply and evaluate technology/ engineering of the box and honey bee sanitation	Able to explain housing technology to honey bees and evaluate the results	Honey bee housing and sanitation technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
8	UJIAN TENGAH SEMESTER					
9	Able to determine, apply, and evaluate honey bee feed technology/engineering	Able to explain honey bee feed development technology and evaluate the results	Honeybee feed technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
10	Able to determine, apply, and evaluate honey bee reproductive technology/ engineering	Able to explain honey bee reproductive development technology and evaluate the results	Honey bee reproductive technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
11	Able to determine, apply, and evaluate technology/ engineering of silkworm breeds	Able to explain the technology to obtain superior silkworm breeds and evaluate the results	Technology in silkworm breeds	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
12	Able to determine, apply, and evaluate housing technology/ engineering, equipment, and sanitation for silkworm	Able to explain housing technology on silkworms and evaluate the results	Silkworm housing and sanitation technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	

13	Able to determine, apply, and evaluate silkworm feed technology/engineering	Able to explain feed development technology for silkworms and evaluate the results	Feed technology for silkworm	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
14	Able to determine, apply, and evaluate technology/engineering of silkworm reproduction and cocooning	Able to explain silkworm reproductive development technology and evaluate the results	Silkworm reproductive technology	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
15	Review	Students are able to explain the technology for developing various animal commodities	Choose one of the various animal commodities	Offline learning, practicum, and assignments	Presence and activeness, papers, and mastery of the material	
16	FINAL EXAM					