Module designation	Latest Animal Science Progress		
Semester(s) in which the	Odd and even semesters		
module is taught			
Person responsible for the	Prof. Ir. Yuny Erwanto, S.Pt., M.P., Ph.D., IPM.		
module	Prof. Dr. Ir. Ali Agus, DAA., DEA., IPU., ASEAN Eng.		
	Prot. Ir. Budi Guntoro, S.Pt., M.Sc., Pn.D., IPU., ASEAN Eng.		
	II. Dyan Manarani, S.P., M.P., Ph.D., IPM.		
Relation to ourrigulum	Banasa and English		
Teaching methods	Classical locture and discussion		
Workload (incl. contact hours			
self-study hours)	Total workload: 79 hours		
	Contact hours:		
	 Lecture: 23 hours 		
	 Academic activity: 28 hours 		
	Private study: 28 hours		
Credit points	2/0		
Required and recommended			
prerequisites for joining the	None		
module			
Module objectives/intended	Course Outcomes:		
learning outcomes	1. Be able to comprehend the latest progress in the field of modern		
	genetic for livestock development.		
	2. Be able to comprehend the latest progress in the field of		
	and any irrespondent line modern raining system which are encient		
	3 Be able to comprehend the latest progress in the field of feed		
	formulation that can utilize the local resources in Indonesia.		
	feed safety, and nutrigenomic		
	4. Be able to comprehend the latest progress of animal science		
	related to the animal product processing and the need aspect		
	for human food		
	5. Be able to comprehend the latest development of community		
	empowerment patterns and the livestock development of local		
	farming community with economic value		
	6. Be able to analyse the latest journal based on the field attached		
	Expected Learning Outcomes:		
	- Attitudes and Behaviors:		
	1. Be long life learning with basic character as religious		
	attitudes, humanity, nationalism, tolerance, moderate,		
	respecting in cultural diversity based on National Five		
	Principle of Pancasila. (CO1, CO3)		
	2. Be accountable for professional practices that consist of		
	accepting sue for any professional decision and action		
	according to their area's scope and according to the		
	law/regulations. (CO1, CO3, CO5, CO6)		
	- Mastery in Sciences:		
	1. Able to master scientific philosophy and develop new		
	science and technology in animal science is useful,		
	competitive, and environmentally sound research with a		
	multidisciplinary approach. (CO2, CO3, CO5, CO6)		
	2. Able to develop new science and technology concepts to		

	solve pr research approac	oblems in the n with mult hes. (CO2, CO	e field of animal hus idisciplinary and 1 05, CO6)	bandry through transdisciplinary	
	 General skills: Able to contribu and/or t on scier creative or transe human v Able to technolo a critical an inter approac research CO5. CO 	find or develo te to the dev echnology by ntific methodol thinking throu disciplinary ap values in their develop a res ogical, or artist l view of facts, rdisciplinary, r h, based on a n and their con D6)	op new theories/con- velopment and prace producing scientific ogy, logical, critical, gh interdisciplinary, r proaches, pay attent field of expertise. (CC earch roadmap to co ic arguments and sol concepts, principles, nultidisciplinary, or a study of the main constellation on broade	cepts/ideas and tice of science research based systematic, and multidisciplinary, ion to and apply D2, CO5, CO6) ompile scientific, utions based on or theories with transdisciplinary objectives of the r targets. (CO2,	
Content	This course is a compulsory subject for the animal science doctoral study program who wants to provide insight and motivation in developing animal husbandry science based on the latest animal husbandry scientific developments in a broad sense. In this course, the results of in-depth and up-to-date research will be discussed in the fields of genetics, genetic engineering, embryology, livestock production and production systems, animal-derived food technology in depth related to aspects of food and human health, formula rations and future rations in the world of animal science, and the latest scientific updates in the livestock business in Indonesia and the world.				
Exams and assessment formats	Assessment C	omponents	Course Outcomes (CO)	S Percentage	
	1. Midterm exa test, paper as	am (written signment)	CO 1, CO 2 & CO 3	3 35	
	2. Final exam paper assignr	(written test, ment)	CO 4, CO 5 & CO 6	6 35	
	3. Short quizzes	6	CO 1, CO 2 & CO 3	3 10	
	4. Persentation C 5. Take-home written assigment C		CO 1, CO 2 & CO 3	3 10	
			CO 4, CO 5 & CO 6	CO 4, CO 5 & CO 6 10	
	Grade and Score				
	Grade	Score	Grade	Score	
	A	≥80	C+	45-49,9	
	A-	/5-/9,9	C C	40-44,9	
	A/B	/0-/4,9	<u> </u>	35-39,9	
	B+	65-69,9	C/D	30-34,9	
	ы	60-64,9	D+	ZD-Z9,9	
				20.04.0	
	B-	55-59,9	D	20-24,9	
Study and avamination	B- B/C	55-59,9 50-54,9		20-24,9 0-19,9	
Study and examination	B- B/C The final grade i	55-59,9 50-54,9 n the module	D E is composed of 35%	20-24,9 0-19,9 performance on	
Study and examination requirements	B- B/C The final grade i Midterm exam, 3	55-59,9 50-54,9 n the module 35% final exameters	D E is composed of 35% m, 10% quiz, 10% pu	20-24,9 0-19,9 performance on resentation, and ust have a final	

Reading list	-	GMIA. Gelatin Manufacturers Institute Of america. 2012. Gelatin
		Handbook. Hill street, Woburn, Massachusetts, 01801.
	-	Yuwono, T. 2005. Biologi Molekular. Penerbit Erlangga. Jakarta
	-	Gomez-Guillen, M. C., B. Gimenez, M. E. Lopez-Caballero, M.
		P. Montero. 2011. Functional and bioactive properties of
		collagen and gelatin from alternative sources: A review. The
		Journal of Food Hydrocolloids 25:1813-1827.
	-	Greene, D. M. 2003. Use of poultry collagen coating and
		antioxidants as flavor protection for cat foods made with
		rendered poultry fat. Virginia, United States: Virginia Polytechnic
		Institute and State University, MSc thesis.