Module designation	Development of Animal Genetic Resources					
Semester(s) in which the	Odd and even semesters					
module is taught Person responsible for the	Prof. Dr. Ir. Sumadi, M.S., IPU.					
module	Prof. Dr. Ir. Sumadi, M.S., IPU. Prof. Ir. Tety Hartatik, S.Pt., Ph.D., IPM.					
	Prof. Ir. Diah Tri Widayati, M.P., Ph.D., IPM.					
	Dr. Ir. Sigit Bintara, M.Si., IPU., ASEAN Eng.					
	Ir. Panjono, S.Pt., M.P., Ph.D., IPM., ASEAN Eng.					
Language	Bahasa and English					
Relation to curriculum Teaching methods	Study Program's Compulsory Classical lecture and discussion					
Workload (incl. contact hours,	Total workload: 79 hours					
self-study 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	(00)					
Module objectives/intended learning outcomes	Course Outcomes (CO):					
learning outcomes	 Able to comprehend the importance of animal genetion resources sustainability. 					
	Able to explain the role of animal breeding on animal genetic					
	development.					
	Able to master animal physiology and reproduction.					
	 Able to apply reproduction technology for animal geneti development. 					
	Expected Learning Outcomes:					
	- Attitudes and Behaviors:					
	 Showing the social sensitivity and attention to the community and environment by respecting the culture diversity, view, religious, beliefs, and other people's opinion, and also obey the rules. (CO1, CO2, CO3, CO4) 					
	- Mastery in Sciences:					
	 Able to master the current animal science and its application theory. (CO1, CO2, CO3) Able to master the livestock production science, animal production and fed aciones animal products to be allowed and fed aciones. 					
	nutrition and fed science, animal products technology, and the livestock social economics in relation to food security and environment. (CO1, CO2, CO3, CO4)					
	- Special skills:					
	Able to make innovation in the animal husbandry based on the dayslanment of estimate and technology (CO3, CO4)					
	the development of science and technology. (CO3, CO4) 2. Able to design interdisciplinary and multidisciplinary research in the animal husbandry. (CO2)					
	- General skills:					
	 Able to develop logical, critical, systematic, and creative thought through scientific research, creation of design in the science and technology, which pays attention and 					

Content	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. (CO3) 2. Able to identify the science that becomes their research object and position it to a research map by using information technology in the context of science development and expertise implementation developed through interdisciplinary or multidisciplinary approaches. (CO1, CO2, CO4) Students in this course will discuss various topics in the development of animal genetic resources, i.e. principal concepts of genetics, application of molecular genetics in livestock animals, selection based on one or multiple traits, cross breeding, animal's endocrine system, environmental effects on animal's physiology and reproduction, artificial insemination, in vitro fertilization, and						
Exams and assessment formats	embryo transfer. Assessment Components Course Outcomes (CO)			Pe	ercentage (%)		
	Midterm e (written take h	exam test, nome aper	CO 1 & CO2		30		
	2. Final exam (written test, take home CO1 & CO2 exam, paper assignment)					30	
			3, & CO4		20		
			CO1, CO	CO1, CO2 & CO3		20	
	Grade and Score						
	Grade	,	Score	Grade)	Score	
	А		≥80	C+		45-49,9	
	A-	7	75-79,9	С		40-44,9	
	A/B 70-74,9	70-74,9	C-		35-39,9		
B+ B	6	55-69,9	C/D		30-34,9		
		6	60-64,9	D+		25-29,9	
	B-		55-59,9	D		20-24,9	
0.1	B/C		0-54,9	E		0-19,9	
Study and examination requirements Reading list	The final grade in the module is composed of 30% performance on Midterm exam, 30% final exam, 20% assignment and 20% Discussion. Students must have a final grade of 70% or higher to pass Learning books and articles related to the topic						
	254111119 250110 and antiolog foldered to the topic						