Module designation	Animal Production System Progress				
Semester(s) in which the	Odd and even semesters				
module is taught					
Person responsible for the module	Ir. Yustina Yuni Suranindyah, M.S., Ph.D. Prof. Dr. Ir. Budi Prasetyo Widyobroto, DEA., DESS., IPU.,				
module	ASEAN Eng.				
	Ir. Panjono, S.Pt., MP., Ph.D., IPM., ASEAN Eng.				
	Ir. Tri Satya Mastuti Widi, S.Pt., M.P., M.Sc.,Ph.D., IPM.,				
	ASEAN Eng.				
	Ir. Heru Sasongko, M.P.				
-	drh. Bambang Ariyadi, M.P., Ph.D.				
Language	Bahasa and English				
Relation to curriculum	Specialization's Compulsory Classical lecture and discussion				
Teaching methods Workload (incl. contact hours,					
self-study hours)	Total workload: 79 hours				
Son Study Hours)	Contact hours:				
	- Lecture: 23 hours				
	- Academic activity: 28 hours				
	Private study: 28 hours				
Credit points	2/0				
Required and recommended	News				
prerequisites for joining the module	None				
Module objectives/intended	ended Course Outcomes (CO):				
learning outcomes	Be able to identify the trend and the problem in animal				
	production system				
	2. Be able to identify the supporting factors behind the change				
	(evolution) in animal production system				
	3. Be able to analyse the impacts caused by the supporting				
	factors (the causes) in animal production system				
	Be able to measure on how the trends in animal production system will be continued in the future				
	Expected Learning Outcomes:				
	- Attitudes and Behaviors:				
	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, CO2, CO3, CO4)				
	- Mastery in Sciences:				
	Able to develop new science and technology concepts to				
	solve problems in the field of animal husbandry through research with multidisciplinary and transdisciplinary				
	approaches. (CO1, CO2)				
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	Special skills:1. Able to manage, lead and develop research in the field of				
	animal husbandry, as well as communicate the results and				
	get recognition at the national and international levels for				
	the benefit of humankind. (CO2, CO3, CO4)				
	- General skills:				
	Able to find or develop new theories/concepts/ideas and				

	contribute to the development and practice of science and/or technology by producing scientific research based on scientific methodology, logical, critical, systematic, and creative thinking through interdisciplinary, multidisciplinary, or transdisciplinary approaches, pay attention to and apply human values in their field of expertise. (CO2, CO3, CO4) 2. Able to develop a research roadmap to compile scientific, technological, or artistic arguments and solutions based on a critical view of facts, concepts, principles, or theories with an interdisciplinary, multidisciplinary, or transdisciplinary approach, based on a study of the main objectives of the research and their constellation on broader targets. (CO2, CO3, CO4) 3. Able to communicate the result of reasoning and scientific research in the form of dissertation and scientific writing responsibly based on academic ethics. (CO3, CO4)					
Content	This course discusses about the condition of the current animal					
	production system in meat animal, poultry, and dairy an together with the trend and the problem globally followed with					
	assessment on	assessment on how the trend will be continued in the future.				
Exams and assessment formats	Assessment Components		Course Outcomes (CO)	Percentage (%)		
	Midterm exam (written test, paper assignment)		CO 1 & CO 2	50		
	Final exam paper assign		CO 1, CO 2, CO 3 & CO 4	50		
	Grade and Score					
	Grade	Score	Grade	Score		
	A	≥80	C+	45-49,9		
	A-	75-79,9	С	40-44,9		
	A/B	70-74,9	C-	35-39,9		
	B+	65-69,9	C/D	30-34,9		
	В	60-64,9	D+	25-29,9		
	B-	55-59,9	D	20-24,9		
	B/C	50-54,9	E	0-19,9		
Study and examination	The final grade in the module is composed of 50% performance on					
requirements	Midterm exam, 50% final exam. Students must have a final grade of 70% or higher to pass - European Commission. Structure and dynamics of EU farms:					
Reading list						
	 changes, trends and policy relevance. EU Agricultural Economics Briefs. 2013: 1–15. Alvarez A, del Corral J, Solís D, Pérez JA. Does Intensification Improve the Economic Efficiency of Dairy Farms? J Dairy Sci. Elsevier; 2008;91: 3693–3698. doi:10.3168/jds.2008-1123 [PubMed] Bava L, Sandrucci A, Zucali M, Guerci M, Tamburini A. How can farming intensification affect the environmental impact of milk production? J Dairy Sci. 2014;97: 4579–4593. doi: 10.3168/jds.2013-7530 [PubMed] FAO animal production and health guidelines. guide to good dairy farming practice. Food and agriculture organization of the united nation and international dairy federation Rome, 2011. 					

- Georgina Villarreal Herrera. 2017. Sustaining Dairy, 2017.PhD thesis, Wageningen University, Wageningen, the Netherlands. With references, with summaries in English, Dutch and Spanish ISBN 978-94-6343-154-5 DOI 10.18174/410882. 331 pages.
- Lhoste P. 1986. L'association agriculture élevage. Evolution du système agropastoral au Siné - Saloum (Sénégal). Paris: INAPG, Cirad.
- Landais E, Lhoste P, Guerin H. Les systèmes de gestion de la fumure animale et leur insertion dans les relations entre l'élevage et l'agriculture. Cahiers Agricultures 1993; 2:9-25.
- Landais E, Lhoste. L'association agriculture élevage en Afrique intertropicale: un mythe techniciste confronté aux réalités du terrain. USDA. 2012. Milk Production Methodology and Quality Measures. the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA). ISSN: 2167-1885.
- Pearson RA, Lhoste P. Working animals in agriculture and transport. A collection of some current research and development observations. Wageningen Academic Publishers, The Netherlands, 2003. EAAP Technical series N 6