

Module designation	Experiment Design
Semester(s) in which the module is taught	Odd and Even semesters
Person responsible for the module	Prof. Ir. Budi Guntoro, S.Pt., M.Sc., Ph.D., IPU, ASEAN Eng. Prof. Dr. Ir. Nurliyani, MS., IPM. Ir. Dyah Maharani, S.Pt., MP., Ph.D., IPM. Ir. Cuk Tri Noviandi, S.Pt., M.Anim.St., Ph.D., IPM., ASEAN Eng. Dr. Ir. Heru Sasongko, M.P.
Language	Bahasa and English
Relation to curriculum	Study Program's Compulsory
Teaching methods	Classical lecture 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 module	None
Module objectives/intended learning outcomes	<p>Course Outcomes (CO):</p> <ol style="list-style-type: none"> 1. Students have cognitive competencies, namely knowing, understanding, and differentiating various methods and experiment designs in the field of animal husbandry. 2. Students have psychomotor competencies, namely selecting and carrying out steps in designing research that is appropriate to the topic or problem in their chosen final project (thesis). 3. Students have affective competence, namely avoiding dishonourable methods of research (for example, plagiarism) and following correct and scientifically based research ethics. <p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> - Mastery in Science: <ol style="list-style-type: none"> 1. Able to master the design, management, and development of livestock research. (CO1) - Special skills: <ol style="list-style-type: none"> 1. Able to design interdisciplinary and multidisciplinary research in the animal husbandry. (CO2) - General skills: <ol style="list-style-type: none"> 1. Able to develop logical, critical, systematic, and creative thought through scientific research, creation of design in the science and technology, which pays attention and 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)
Content	This Experiment design course aims to equip students with knowledge, understanding, and application of various research designs in thesis preparation context. This subject must be taken by the Master program students. The lecture material will briefly discuss the types of research, the stages of research, and types of

	<p>experiment designs such as case study research designs, comparative research designs, quantitative research designs, qualitative research designs, and mixed research designs. Learning activities are carried out through an approach that involves a lot of student activeness, such as discussions, case studies, and the practice of making research designs. Evaluation is carried out through structured assignments, active student participation, and written tests.</p>							
Exams and assessment formats	Assessment Components		Course Outcomes (CO)		Percentage (%)			
	1. Midterm exam (written test, take home exam, paper assignment)		CO1, CO2 & CO3		30			
	2. Final exam (written test, take home exam, paper assignment)		CO1, CO2 & CO3		40			
	3. Discussion		CO1 & CO2		5			
	4. Presentation		CO1 & CO2		15			
	5. Take-home written assignments		CO1 & CO2		10			
	Grade and Score							
	Grade		Score		Grade		Score	
	A		≥80		C+		45-49,9	
	A-		75-79,9		C		40-44,9	
	A/B		70-74,9		C-		35-39,9	
	B+		65-69,9		C/D		30-34,9	
	B		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 requirements	<p>The final grade in the module is composed of 30% performance on Midterm exam, 40% final exam, 5% discussion, 15% presentation, and 10% take-home written assignment. Students must have a final grade of 70% or higher to pass</p>							
Reading list	<ul style="list-style-type: none"> - Uwe Flick. 2009. An Introduction To Qualitative Research. Fourth edition - John W. Creswell, LincolnAnn Carroll Klassen, Vicki L. Plano Clark. Best Practices for Mixed Methods Research in the Health Sciences - Nicholas Walliman. 2011. Research Methods the Basis. Routledge Publisher in London and New York - Catherin Marshall and Gretchen B. Rossman. 1999. Designing Qualitative Research. Sage Publications. 							