

Module designation	Experimental Design in Livestock Socio and Business
Semester(s) in which the module is taught	Odd Semester
Person responsible for the module	Dr. Ir. Suci Paramitasari Syahlani, MM., IPM. Dr. Tri Anggraini Kusumastuti, SP., MP. R. Ahmad Romadhoni Surya Putra, S.Pt., M.Sc., Ph.D., IPM.
Language	Bahasa and English
Relation to curriculum	Specialization's compulsory
Teaching methods	Classical lecture and discussion
Workload (incl. contact hours, self-study hours)	Total workload: 79 hours Contact hours: <ul style="list-style-type: none"> - 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:</p> <ol style="list-style-type: none"> 1. Able to explain the philosophy of research approach. 2. Able to identify and determine a research idea. 3. Able to explain and apply various type of experiment design to formulate research proposal. 4. Able to formulate a rigid and robust research proposal. <p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> - Attitudes and Behaviors: <ol style="list-style-type: none"> 1. Piety to God and be able to show religious attitude and maintain the humanity values in carrying the task, which is based on religion, moral, and ethics. (CO1, CO4) - Mastery in Sciences: <ol style="list-style-type: none"> 1. Able to master the livestock production science, animal nutrition and fed science, animal products technology, and the livestock social economics in relation to food security and environment. (CO3) 2. Able to master the design, management, and development of livestock research. (CO1, CO2, CO3, CO4) - Special skills: <ol style="list-style-type: none"> 1. Able to design interdisciplinary and multidisciplinary research in the animal husbandry. (CO3) 2. Able to formulate and solve problems in the national development especially in terms of animal husbandry. (CO4) 3. Able to solve problems and anticipate issues in the development of animal science and industry. (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)

	<ol style="list-style-type: none"> 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. (CO3) 3. Able to make a decision in the context of solving problems in the development of science and technology, which pays attention and applies humanity values based on analysis study or experiment towards information and data. (CO3) 4. Able to communicate the result of reasoning and scientific research in form of thesis and scientific writing responsibly based on academic ethics in the accredited national journal. (CO4) 5. Able to maintain the academic integrity generally and avoid the plagiarism practice. (CO4) 6. Able to communicate spoken and written English effectively by using the information technology for the development of animal science and its implementation. (CO4) 																																																					
Content	<p>This course is designed to shape students' ability in carrying out experiment/research in the field of socio-economic and business with either quantitative or qualitative approach. Topics covered in this course: epistemology and ontology of research approach in the field of social and business, research process, research ethics, data source, quantitative experiment design (survey and experiment), qualitative experiment design (phenomenology, grounded theory, ethnography and case study, sampling design. This course also explains data collection that includes measurement and its scale, questionnaire formulation, in-depth interview, focus group discussion and observation, and data analysis, data interpretation, and research report writing.</p>																																																					
Exams and assessment formats	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Assessment Components</th> <th style="width: 30%;">Course Outcomes (CO)</th> <th style="width: 40%;">Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>1. Midterm exam (written test, take home exam, paper assignment)</td> <td>CO1, CO2, & CO3</td> <td>30</td> </tr> <tr> <td>2. Final exam (written test, take home exam, paper assignment)</td> <td>CO3 & CO4</td> <td>30</td> </tr> <tr> <td>3. Presentation</td> <td>CO3</td> <td>15</td> </tr> <tr> <td>4. Discussion</td> <td>CO2</td> <td>10</td> </tr> <tr> <td>5. Research proposal</td> <td>CO4</td> <td>15</td> </tr> <tr> <th colspan="3" style="text-align: center;">Grade and Score</th> </tr> <tr> <th style="width: 25%;">Grade</th> <th style="width: 25%;">Score</th> <th style="width: 25%;">Grade</th> <th style="width: 25%;">Score</th> </tr> <tr> <td>A</td> <td>≥80</td> <td>C+</td> <td>45-49,9</td> </tr> <tr> <td>A-</td> <td>75-79,9</td> <td>C</td> <td>40-44,9</td> </tr> <tr> <td>A/B</td> <td>70-74,9</td> <td>C-</td> <td>35-39,9</td> </tr> <tr> <td>B+</td> <td>65-69,9</td> <td>C/D</td> <td>30-34,9</td> </tr> <tr> <td>B</td> <td>60-64,9</td> <td>D+</td> <td>25-29,9</td> </tr> <tr> <td>B-</td> <td>55-59,9</td> <td>D</td> <td>20-24,9</td> </tr> <tr> <td>B/C</td> <td>50-54,9</td> <td>E</td> <td>0-19,9</td> </tr> </tbody> </table>	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)	CO3 & CO4	30	3. Presentation	CO3	15	4. Discussion	CO2	10	5. Research proposal	CO4	15	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
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<p>Study and examination requirements</p>	<p>The final grade in the module is composed of 30% performance on Midterm exam, 30% final exam, 15% presentation, 10% discussion, 15% research proposal. Students must have a final grade of 70% or higher to pass</p>
<p>Reading list</p>	<ul style="list-style-type: none"> - Cooper, D.R. and Schindler, P. S. 2006. Business Research Methods. 9th ed. McGraw-Hill. Boston. - Creswell. John W. 2013. Qualitative Inquiry and Research design: Coosing Among Five Approach. 3rd ed. Sage. Los Angeles. - Caldwell (1990) "Does Methodology Matter? How should it be practised?" Finnish Economic Papers 3(1):64-71. - D. Hausman (1989) "Economic Methodology in a Nutshell" Journal of Economic Perspectives 3(2): 115-127. - D. Wade Hands (1990) "Thirteen Theses on Progress in Economic Methodology" Finnish Economic Papers 3(1):72-76 - Randall (1993) "What Practicing Agricultural Economists Really Need to Know about Methodology" American Journal of Agricultural Economics 75(October): 48-60 B. - Caldwell (1990) "Does Methodology Matter? How should it be practised?" Finnish Economic Papers 3(1):64-71. - Uskali Mäki (1990) "Methodology of Economics: Complaints and Guidelines" Finnish Economic Papers 3(1):77-84