Module designation	Thesis
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. Ir. Nafiatul Umami, S.Pt., M.P., Ph.D., IPM., ASEAN Eng.
Language	Bahasa and English
Relation to curriculum	Study Program's Compulsory
Teaching methods	Seminar, discussion, consultation, lab works, projects.
Workload (incl. contact hours, self-study hours)	Total workload: 768 hours
Credit points	12/0
Required and recommended prerequisites for joining the module	None
Module objectives/intended learning outcomes	Course Outcomes (CO): 1. Students are able to analyze problems with a scientific approach 2. Able to solve problems in the field of animal science 3. Able to make scientific reports with an interdisciplinary approach 4. Conduct the research project in academic ethic Expected Learning Outcomes: - Attitudes and Behaviours: 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. (CO2, CO3, CO4) 2. Be proud and love the homeland show nationalism, and contribute to the improvement of the life quality in the community, nation and country, and the advancement of civilization according to Pancasila. (CO2, CO3, CO4) 3. 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. (CO2, CO3, CO4) 4. Be accountable in carrying the professional practice that includes ability to accept accountability towards decision and professional action. It shall be according to the scope of the practice under their responsibility and laws. (CO2, CO4) - Mastery in Sciences: 1. Able to master the current animal science and its application theory. (CO1, CO4) 2. 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. (CO1, CO4) 3. Able to master the design, management, and development of livestock research. (CO1, CO2, CO4) - Special skills: 1. Able to make innovation in the animal husbandry based on the development of science and technology. (CO1, CO2,

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CO4)
2. Able to design interdisciplinary and multidisciplinary research in the animal husbandry. (CO2, CO4)
3. Able to formulate and solve problems in the national development especially in terms of animal husbandry. (CO2, CO4)
4. Able to solve problems and anticipate issues in the development of animal science and industry. (CO2, CO4)
- General skills:
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, CO4)
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, CO4)
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, CO4)
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. (CO3, CO4)
5. Able to maintain the academic integrity generally and avoid the plagiarism practice. (CO3, CO4)
6. Able to communicate spoken and written English effectively by using the information technology for the development of animal science and its implementation. (CO3, CO4, CO5)
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<tr><td>Content</td><td>
Thesis project consists of:
a. Thesis proposal, consists of research proposal writing and seminar.
b. Research and thesis writing
c. Research result seminar
d. Thesis examination
e. Publication
The publication meant in this case is the research result that has been sent to the editor minimum to the accredited national journal or the research result that has been agreed by the editor to be published on the proceeding seminar with the Scopus index.
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<tr><td>Exams and assessment formats</td><td>
<table>
<tr><td>Assessment Components</td><td>Course Outcomes (CO)</td><td>Percentage (%)</td></tr>
<tr><td>1. Presentation</td><td>CO1, CO2, CO3 & CO4</td><td>100</td></tr>
<tr><td colspan="3">Grade and Score</td></tr>
<tr><td>Grade</td><td>Score</td><td>Grade</td><td>Score</td></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>
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	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	Finish thesis of the research result and publication.			
Reading list	- Bhaskar, R. 1978. A Realist Theory of Science. Hassocks: Harvester Press. - Bhaskar, R. 1989. Reclaiming Reality: A Critical Introduction to Contemporary Philosophy. London: Verso. - Brunel University London. 2015. Research Ethics handbook: philosophy, history and theory. Revised may 2015 version 1.1 - Lakhotia, SC. 2021.Philosophy and Ethics of Research in Science. At http://www.researcggate.net/publication/351835855 - Resnik, DB. 2007. What is Ethics in Research and Why Is It Important? at: http://researchgate.net/publication/242492652. January2007 - Saunder, MNK. 2009. Understandings research philosophies and approaches. Chapter 4. Available at: https://wwww.researchgate.net/publication/309102603			