



UNDERGRADUATE PROGRAM

Module designation	Statistics dan Data Analysis
Semester(s) in which the module is taught	3 rd semester
Person responsible for the module	Prof. Dr. Ir. Eka Meutia Sari, M.Sc
Language	Indonesia/English
Relation to curriculum	Compulsory module
Teaching methods	Lecture, discussion, project learning
Workload	<ul style="list-style-type: none">• 100 minutes of lectures and discussion per week
Credit Points	2 sks = 3.2 ects
Required and recommended prerequisites for joining the module	
Module objectives/intended learning outcomes	<ul style="list-style-type: none">• Able to understand and explain the meaning of statistics and data analysis related to the livestock sector• Able to understand and explain learning and analyzing data related to the field of animal husbandry• Able to understand, use and explain statistical methods and data analysis in the livestock sector• Able to apply statistics and data analysis oriented to livestock production
Content	This course explains the basic concepts of statistics, understanding several terms in statistics (sample, population, data, etc.); various techniques for understanding data, which include presenting and summarizing data, exploring the existence of extreme values, exploring distribution patterns, exploring comparisons between groups, and exploring relationships between variables; modeling, which includes association, correlation and introduction of linear regression models; understanding several methods of data collection, data management and several techniques for presenting information in the presentation of analysis results, which can be applied to various applied fields, such as Agriculture, Biology, Social Affairs, Business, and so on
Exams and assessment formats	Essay, case analysis and oral presentation
Study and examination requirements	20% participative activity 50% case project 5% quizzes



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Department of Animal Science

	5% structured assignment 10% midterm examination 10% final examination
Reading list	<p>Wijaya, E, <i>et al.</i> 2024. Pengantar Statistika: Konsep Dasar untuk Analisis Data. Sonpedia Publishing Indonesia</p> <p>John Mande. 2023. The Statistical Analysis of Experimental Data (Dover Books on Mathematics). Dover Publications.</p> <p>Lock, R <i>et al.</i> 2020. Statistics: Unlocking the Power of Data (Edisi ke-3). John Wiley & Sons (Wiley).</p> <p>Walpole, Ronald E., 2005. Pengantar Statistika. Edisi ke-3. PT Gramedia Pustaka Utama, Jakarta</p>