

UNDERGRADUATE PROGRAM

MODULE HANDBOOK

Module designation	Feed Supply Chain (SPTK6071)
Semester(s) in which the module is taught	5 rd Semester
Person responsible for the module	Prof. Dr. Ir. Samadi, M.Sc
Language	Indonesian, English
Relation to curriculum	Elective module for area of interest in Animal Production
Teaching methods	Lectures, audiovisual aids, discussions and Q&A sessions, and group assignments.
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none"> ✓ 100 minutes lecture and discussion per week ✓ 120 minutes structured tasks per week ✓ 120 minutes learn to be independent per week
Credit points	2 SKS = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Students are able to analyze, design, and manage efficient feed supply chains from raw material sourcing to delivery at the farm. They will develop the ability to optimize logistics, ensure feed quality during transport, and apply risk management strategies to secure continuous supply.
Content	Introduction to feed supply chain concepts; mapping and analysis of feed supply networks; sourcing and procurement strategies; feed storage, handling, and transportation; quality assurance in supply chains; cost and risk analysis; sustainability and traceability systems; digital technologies for supply chain monitoring; case studies of local and global feed supply chains.
Exams and assessment formats	Practice, work, independent study, quizzes, and Q&A sessions
Study and examination requirements	<ul style="list-style-type: none"> ✓ Participatory Activities (Attitude and Discussion): 20% ✓ Project Results (Posters, Reports and Presentations): 30% ✓ Cognitive/Knowledge: <ul style="list-style-type: none"> Homework/Assignments: 5% Quiz: 5% Exam 1 (From 2nd Lecturer): 20% Exam 2 (From 3rd Lecturer): 20%

Reading list	<ol style="list-style-type: none"> 1. Pexas, G., Doherty, B., & Kyriazakis, I. (2023). <i>The future of protein sources in livestock feeds: implications for sustainability and food safety</i>. Frontiers in Sustainable Food Systems, 7, Article 1188467. https://doi.org/10.3389/fsufs.2023.1188467. Frontiers 2. Anderson, J. D., et al. (2021). <i>Lessons from the COVID-19 pandemic for food supply chains</i>. Applied Animal Science. (Review/Article discussing supply-chain shocks and resilience in protein sectors). appliedanimalscience.org 3. Nchanji, E. B., et al. (2021). <i>Sustainability of the agri-food supply chain amidst disruptions: lessons and policy implications</i>. In reviews on agri-food chain resilience. Frontiers / PMC chapter. PMC 4. Ishag, K. H. M. (2024). <i>Animal feed business risk assessment: quantification of supply chain risks and business sustainability</i>. Scientific Research Publishing (SCIRP). SCIRP 5. Su, I. H., (2023). <i>The future of the food supply chain: a systematic literature review</i> (food-supply-chain resilience and gaps). ScienceDirect / Journal article (2023). ScienceDirect
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