

Module designation	Functional Feed Development
Semester(s) in which the module is taught	Odd and even semesters
Person responsible for the module	<p>Prof. Dr. Ir. Kustantinah, DEA., IPU.          Prof. Dr. Ir. Lies Mira Yusiati, SU., IPU., ASEAN Eng          Dr. Ir. Chusnul Hanim, M.Si., IPM., ASEAN Eng.          Prof. Dr. Ir. Ali Agus, DAA., DEA., IPU., ASEAN Eng.          Dr. Ir. Bambang Suhartanto, DEA., IPU          Ir. Nanung Dinar Dono, S.Pt., M.P., Ph.D., IPM., ASEAN Eng.          Ir. Bambang Suwignyo, S.Pt., M.P., Ph.D., IPM., ASEAN Eng.          Ir. Cuk Tri Noviandi, S.Pt., M.Anim.St., Ph.D., IPM., ASEAN Eng.          Prof. Dr. Ir. Zuprizal, DEA., IPU., ASEAN Eng.</p>
Language	Bahasa and English
Relation to curriculum	Specialization's Elective
Teaching methods	Classical lecture and discussion
Workload (incl. contact hours, self-study hours)	<p>Total workload: 79 hours          Contact hours:              - Lecture: 23 hours              - Academic activity: 28 hours          Private study: 28 hours</p>
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"> <li>1. Able to know and understand about various feed potencies for ruminant, non-ruminant, and poultry, from the nutrient content and from the active metabolite compound</li> <li>2. Able to know and understand deeply about the roles (positive effect) of nutrient content and the active metabolite compound to the microflora in which live in the digestion tract of animal of ruminant, non-ruminant, and poultry</li> <li>3. Able to interpret learning results as the basis to do experiment in the nutrition and animal feeding fields</li> </ol> <p>Expected Learning Outcomes:</p> <ul style="list-style-type: none"> <li>- Attitudes and Behaviors:             <ol style="list-style-type: none"> <li>1. Be accountable for professional practices that consist of accepting sue for any professional decision and action according to their area's scope and according to the law/regulations. (CO1)</li> </ol> </li> <li>- Mastery in Sciences:             <ol style="list-style-type: none"> <li>1. Able to master scientific philosophy and develop new science and technology in animal science is useful, competitive, and environmentally sound research with a multidisciplinary approach. (CO2)</li> <li>2. Able to develop new science and technology concepts to solve problems in the field of animal husbandry through research with multidisciplinary and transdisciplinary approaches. (CO2)</li> </ol> </li> <li>- Special skills:             <ol style="list-style-type: none"> <li>1. Able to develop science and technology through creative,</li> </ol> </li> </ul>

	<p>original, and novelty research. (CO2, CO3)</p> <p>2. Able to independently design and carry out inter-, multi-, and transdisciplinary research for the development of animal husbandry science and technology.( CO3)</p> <p>- General skills:</p> <p>1. Able to find or develop new theories/concepts/ideas and contribute to the development and practice of science and/or technology by producing scientific research based on scientific methodology, logical, critical, systematic, and creative thinking through interdisciplinary, multidisciplinary, or transdisciplinary approaches, pay attention to and apply human values in their field of expertise. (CO3)</p> <p>2. Able to develop a research roadmap to compile scientific, technological, or artistic arguments and solutions based on a critical view of facts, concepts, principles, or theories with an interdisciplinary, multidisciplinary, or transdisciplinary approach, based on a study of the main objectives of the research and their constellation on broader targets. (CO3)</p>																																													
Content	<p>This course is provided for student who wants to be researcher and wants to do research deeply in the nutrition and animal feeding. This course gives the comprehension and knowledge about various benefits that can be gained or can be learned from the nutrient content and active metabolite compound in feed given to animals. This is as a good way in increasing the efficiency and the effectivity of the productivity increasement or the performance of animal among ruminant, non-ruminant, and poultry.</p>																																													
Exams and assessment formats	<table border="1"> <thead> <tr> <th>Assessment Components</th> <th>Course Outcomes (CO)</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>1. Midterm exam (written test, paper assignment)</td> <td>CO 1, CO 2 &amp; CO 3</td> <td>50</td> </tr> <tr> <td>2. Final exam (written test, paper assignment)</td> <td>CO 1, CO 2 &amp; CO 3</td> <td>50</td> </tr> <tr> <th colspan="4">Grade and Score</th> </tr> <tr> <th>Grade</th> <th>Score</th> <th>Grade</th> <th>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, paper assignment)	CO 1, CO 2 & CO 3	50	2. Final exam (written test, paper assignment)	CO 1, CO 2 & CO 3	50	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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Study and examination requirements	<p>The final grade in the module is composed of 50% performance on Midterm exam, 50% final exam. Students must have a final grade of 70% or higher to pass</p>																																													
Reading list	<p>Learning books and articles related to the topics.</p>																																													