

Module Handbook

Modul Name	Animal Feed Technology
Modul Level	1 (Bachelor)
Abbreviation, if applicable	KHT-301
Sub-heading, if applicable	
Courses included in the module, if applicable	
Semester/term	3/2
Module coordinator(s)	Dr. M. Anam Al-Arif, drh., MP
Lecturer(s)	1. Dr. M. Anam Al-Arif, drh., MP. 2. Dr. Mirni Lamid, drh., MP. 3. Dr. Widya Paramita Lokapirnasari, drh., MP.
Language	Bahasa Indonesia and English
Classification within the curriculum	Compulsory/ elective course
Teaching format/class hours per week during the semester	1 class hour lecture (170 minutes lecture) x 14 weeks 2 class hour lecture (2 x 170 minutes lecture) x 14 weeks
Workload per semester	170 minutes lecture is divided into 50 minutes face to face interaction, 50 minutes assignment, 70 minutes independent study. 340 minutes practical is spent on conducting activities in laboratory/ field
Credit points	3 (lecture 1, Practical 2) (~4.53 ECTS)
Requirements	Animal Feed and Nutrient Science (NUV101)
Learning goals/competencies	Students are able to process animal feed ingredients into better and better quality products
Content	This subject discusses feed nutrients, feed nutrition checks, feed forages (silage & hay), processing agricultural waste (ammonia, alkaline hydrolysis, fermentation), making wafers, supplemental feed, minerals, feed preparations, detecting forgery, homogeneity of rations and feed experiment.
Softskills attribute	Cooperation, interpersonal relations, discipline, achievement motivation, analytical thinking
Study/exam achievements	Final exam (27,3%), Mid Term Exam (18.2%), Assigment (13,6%), Quizzes (13,6%), Softskill (9,1%), Practical report (18.2%)
Forms of media	Computer projector, white board, AULA (Airlangga University e-Learning Application)
Literatures	1. ADM. 2016. ADM Ingredients Catalog. Feed and Pet food. Archer Daniels Midland Company. 2. Bedford MR and Partridge GG. 2000. Enzymes in Farm Animal Nutrition. CABI Publ. New York. USA. 3. Lardy G and Anderson V. 2003. Alternative Feeds for Ruminants. NDSU Extension Service, Dakota. 4. Makkar H. Frequently asked question on Urea- Molasses-

	<p>Multinutrient Block Technology. Animal Production and Health Section.</p> <p>5. Pfeffer E and Hristov AN. 2005. Nitrogen and Phosphorus Nutrition of Cattle. CABI Publishing, UK.</p> <p>6. Uppal DS, Ilyas SM and Sikka SS. Quality and Safety of Animal Feeds in India. USAID. Home Made Animal Feed Concentrates. Food and Agriculture Organization of The United Nation. Georgia.</p>
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