Appendix 4.1

Module Name	**Nutrition and Feed Science**
Module Level, if applicable	Intermediate
Code if Applicable	120354681
Subtitle, if applicable	-
Courses, if applicable	120354681, Nutrition and Feed Science
Semester(s) in which the module is taught	Semester III
Person responsible for the module	Prof. Dr. Ir. Indah Prihartini, MP
Lecturer	1. Prof. Dr. Ir. Indah Prihartini, MP. 2. Prof. Dr. Ir. Wahyu Widodo 3. Apriliana Devi Anggraini S.pt., M.Sc, 4. Dr. Ir. Asmah Hidayati, M.P. 5. Dr. Ir. Listiari Hendraningsih, MP. 6. Dr. Imbang Dwi Rahayu Drh., M.Kes.
Language	Indonesian
Relation to curriculum	Compulsory Courses for undergraduate program in Faculty of Animal Science and Department of Aquaculture
Type of teaching, contact hours	Type of teaching: Online, Presentation, Discussion, and Theory Contact hours : 4 hours x 14 weeks
Workload	Class : 2 hours x 14 weeks = 28 hours Practical class : 2 hours x 14 weeks = 28 hours Examination 2 hours x 2 time = 4 hours Total: 60 hours
Credit points	SKS 4 SCH x (1.4) = 5.6 ECTS
Requirements according to the examination regulations	1. Registered in this course 2. Minimum 80% attendance in this course
Recommended prerequisites	Graduated from Animal Science and Biochemistry
Module Objectives (Intended learning outcomes)	1. Able to analyze the basic concept and scope of animal nutrition 2. Proficient in reviewing, presenting and giving reccomendations 3. Individually reviewing theory, discussion, analysis of scientific articles or research results and be responsible according with academic values, norms and ethics 4. Students are able to define, classify anti-nutrient, anti-nutrient

	metabolism and characterize anti-nutrient disorder 5. Student are able to identify, analyze and evaluate chemical and biological nutrients
Module Content	This course discusses about the basic concepts of animal nutrition, digestion, metabolism, metabolism, nutritional disorders according to the type of livestock and evaluation of substances
Study and examination requirements and forms of examination	**Cognitive:** Midterm exam, Final exam, Quizzes, Assignments **Psychomotor:** Practice **Affective:** Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, (c) Effort.
Media employed	Classical teaching tools with white board and power point presentation
Recommended Literature	For Class A. Compulsory 1. Animal Nutrition, Mc. Donald, 2014, Mc Graw Hill, NY 2. Feed and Nutrition, Ensminger dkk. Elsevier. NY B. Option 1. Nutrisi dan Pakan untuk Sapi Perah, Prihartini, 2014. UMM Press 2. Nutrisi dan Pakan untuk Sapi Potong, Prihartini, 2013. UMM Press 3. Nutrisi dan pakan unggas, Widodo, 2013. UMM Press 4. Zat anti nutrisi untuk ternak Unggas, Widodo, 2009. UMM Press 5. Evaluation feed and nutrition, Orskov, 2001.
Date of Last Amendment	22nd August 2022