



FACULTY OF ANIMAL AND AGRICULTURAL SCIENCE

VETERANITY UNDERGRADUATE PROGRAM

Module Handbook

Module designation	Layer Management
Semester(s) in which the module is taught	5 th Semester
Person responsible for the module	Ir, Teysar Adi Sarjana, S. Pt., M. Si, Ph. D. IPM.; Prof. Dr. Ir. Edjeng Suprijatna, M.P.; Prof. Ir. Luthfi D. Mahfudz, M.Sc., Ph.D.; Prof. Ir. Dwi Sunarti, M.S., Ph.D.; Dr. Ir. Sri Kismiati, M.P.; Rina Muryani, S.Pt., M.Si.; Binti Ma'rifah, S.Pt., M.Si.
Language	Indonesian, English
Relation to curriculum	Compulsory module for Animal Science Program
Teaching methods	Lecture, small group discussion, cooperative learning, discovery learning; Problem based learning
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none"> ✓ 340 minutes Lecture per week (class 100 minutes; Assignment 120 minutes; 120 minutes self study) ✓ 340 minutes Laboratory session ✓ 100 minutes Mid Term Exam in the eighth and Final Exam in the sixteenth week
Credit points	4 (lecture 2 and laboratory session 2)
Required and recommended prerequisites for joining the module	Basic chemistry, Biology, Animal Physiology, Environmental Animal Physiology, Animal Reproduction Poultry Production
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> ✓ Internalizing academic value, norm and ethic ;Showing attitude of being responsible of the duties in the expertise area independently ;Internalizing the spirit of independence, fight, and entrepreneurship ✓ Able to take the right decision in the context of solving the problems in the area of expertise, based on the information, fact and data analysis ✓ Able to manage layer poultry farm including local/ indigenous poultry, able to plan continuity of production, apply the principles and management modification of environmentally friendly layer poultry with animal welfare insight to the implementation of maintenance along with product quality and distribution ✓ Mastering the theoretical concept of poultry egg production

Content	<p>Assessing the layer industry system, rearing management of layer breeders and management of pre-rearing, rearing and post-rearing of layers.</p> <ol style="list-style-type: none"> 1. Study of layer industry and management of layer breeders 2. Planning activities, continuity of production include business analysis, house, facilities and infrastructure preparation, pre-placement of chicks. 3. Administration and recording, 4. Monitoring of DOC and feed quality control 5. Layer rearing activities include management of layer and local type of poultry egg production according to the rearing phase with an emphasis on specific management of tropical areas that are eco-friendly layer management with animal welfare insight, biosecurity systems, vaccinations and health programs, and performance evaluation. 6. Debeaking, culling, transfer management 7. Harvest, egg collecting, processing, preserving, packaging, distributing and marketing egg products management in order to provide "ASUH" products. 8. Waste handling.
Examination forms	Paper assignment; Self-study; Midterm exam; Final exam
Study and examination requirements	<ul style="list-style-type: none"> ✓ 75 % presence in the learning process ✓ 25 % midterm examination ✓ 25 % final examination ✓ 50 % (lab works; assignment;presentation)
Reading list	<ol style="list-style-type: none"> 1. A Review on Effects of Probiotic Supplementation in Poultry Performance and Cholesterol Levels of Egg and Meat (Getachew, 2016) 2. Beak Trimming Handbook for Egg Producers (Glatz and Bourke, 2006) 3. Commercial Poultry Nutrition 3rd Ed. (Leeson and Summers, 2008) 4. Poultry Disease Influenced by Gastrointestinal Health (Lorenzoni, 2010) 5. Hy-Line International management guide (Hy Line International, 2017) 6. Poultry Behavior and Welfare (Appleby et al., 2004) 7. Poultry Feed Stuff (Mcnabb and Boorman, 2002) 8. Manajemen Ternak Unggas di Kawasan Tropis (Suprijatna, 2016) 9. Poultry Production in Hot Climate (Daghir, 2008) 10. Management of Pullets and Laying Hens under Tropical Conditions (Holic, 2015) 11. Poultry Products Processing : An Industry Guide (Barbut, 2002) 12. Nutrient Requirement of Poultry (NRC, 1994) 13. Welfare of the Laying Hen (Perry, 2003)